ELECTROCHIMICA *Acta*

THE JOURNAL OF THE INTERNATIONAL SOCIETY
OF ELECTROCHEMISTRY

VOLUME CONTENTS AND AUTHOR INDEX

VOLUME 40 (1995)

PERGAMON

ELECTROCHIMICA ACTA

Published by Elsevier Science Ltd for the International Society of Electrochemistry (ISE)

Editor-in-Chief

R. D. ARMSTRONG

CHEMISTRY DEPARTMENT, THE UNIVERSITY,
NEWCASTLE UPON TYNE NE1 7RU, ENGLAND
(Tel: +44 191 2227858. Fax: +44 191 2226929)

Assistant Editor: **O. R. BROWN,** University of Newcastle upon Tyne
Editorial Assistant: **Mrs M. DODDS,** University of Newcastle upon Tyne

North American Editor

E. J. CAIRNS

ENERGY & ENVIRONMENT DIVISION, BUILDING 90,
LAWRENCE BERKELEY LABORATORY, UNIVERSITY OF CALIFORNIA,
BERKELEY, CA 94720, U.S.A.
(Tel: +1 510 4865028. Fax: +1 510 4865172)

Associate Editors

R. ALKIRE
Urbana, IL, U.S.A.

E. BUDEVSKI
Sofia, Bulgaria

M. FROMENT
Paris, France

D. J. HENDERSON
Sandy, UT, U.S.A.

Y. ITO
Kyoto, Japan

D. M. KOLB
Ulm, Germany

K. V. KORDESCH
Graz, Austria

L. I. KRISHTALIK
Moscow, Russia

D. LANDOLT
Lausanne, Switzerland

J. OSTERYOUNG
Rayleigh, NC, U.S.A.

S. K. RANGARAJAN
Bangalore, India

Z. SAMEC
Prague, Czech Republic

J. W. SCHULTZE
Dusseldorf, Germany

D. W. SHOESMITH
Pinawa, Manitoba, Canada

CZ. W. TIAN
Xiamen, China

S. TRASATTI
Milan, Italy

W. VIELSTICH
Bonn, Germany

C. A. VINCENT
St Andrews, Scotland

Production Editor: D. J. SMITH, Elsevier Science Ltd, Oxford *(Tel: +44 1865 843758)*

Publishing, Advertising and Subscriptions Offices: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Tel: (+1865) 843000, Fax: (+1865) 843010.

Authors wishing to use e-mail to contact the Elsevier Science Production Editor for Electrochimica Acta may use the following address: chemistry.production@elsevier.co.uk
We recommend that the journal name is put in the subject field of the message's "envelope" information.

Frequency: Published monthly with additional issues in February, April, June, August, October and December

Subscription Information: Annual Institutional Subscription Rates 1995. North, Central and South America, U.S. $2093.00, Rest of World, £1316.00. Associated Personal Subscription Rates are available on request for those whose institutions are library subscribers. Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice. Issued free to paid-up members of the International Society of Electrochemistry (ISE). Subscription enquiries from customers in North America should be sent to: Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A. and from the Rest of the World to: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Subscription rates for Japan are available on request.

Back Issues: Back issues of all previously published volumes are available direct from Elsevier Science Offices (Oxford and New York). Complete volumes and single issues can be purchased for 1990–1994. Earlier issues are available in high quality photo-duplicated copies as complete volumes only. Back volumes on microfilm are available from UMI, 300 North Zeeb Road, Ann Arbor, MI 48106, U.S.A.

© 1995 Elsevier Science Ltd

SECOND CLASS POSTAGE PAID AT NEWARK, NEW JERSEY AND ADDITIONAL ENTRY POINTS. The Electrochimica Acta (ISSN 0013–4686) is published monthly, January to December, with additional issues in February, April, June, August, October and December, in one volume, by Elsevier Science Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK. The annual subscription in the USA is $1751. The Electrochimica Acta is distributed by Virgin Mailing and Distribution, 10 Camptown Road, Irvington, New Jersey 07111-1105. Postmaster send address corrections to Electrochimica Acta, Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

VOLUME 40 (1995)

CONTENTS

NUMBER 1

	i	ISE pages
D. M. KOLB	1	Editorial
J. G. GORDON, O. R. MELROY and M. F. TONEY	3	Structure of metal-electrolyte interfaces: copper on gold(111) water on silver(111)
ZHICHAO SHI, SHIJIE WU and J. LIPKOWSKI	9	Coadsorption of metal atoms and anions: Cu *upd* in the presence of SO_4^{2-}, Cl^- and Br^-
P. MROZEK, YUNG-EUN SUNG, MOONSUP HAN, M. GAMBOA-ALDECO, A. WIECKOWSKI, CHUN-HSIEN CHEN and A. A. GEWIRTH	17	Coadsorption of sulfate anions and silver adatoms on the Au(111) single crystal electrode. *Ex situ* and *in situ* comparison
XUEKUN XING, IN TAE BAE and D. A. SCHERSON	29	Solvent effects in metal underpotential deposition on single crystal metal surfaces
E. LEIVA and W. SCHMICKLER	37	The lattice constant of adsorbed metal monolayers with incommensurate structure
T. KRAMAR, D. VOGTENHUBER, P. PODLOUCKY and A. NECKEL	43	Electronic structure calculations for a c(2 × 2)-Cl overlayer on a Ag(001) surface
T. IWASITA, F. C. NART, A. RODES, E. PASTOR and M. WEBER	53	Vibrational spectroscopy at the electrochemical interface
M. SCHARFE, A. HAMELIN and C. BUESS-HERMAN	61	On the occurrence of two-dimensional phase transitions of uridine at the aqueous solution–gold single crystal interface
K. KRISCHER, M. LÜBKE, W. WOLF, M. EISWIRTH and G. ERTL	69	Oscillatory dynamics of the electrochemical oxidation of H_2 in the presence of Cu^{2+}: structure sensitivity and the role of anions
R. R. ADŽIĆ, J. WANG and B. M. OCKO	83	Structure of metal adlayers during the course of electrocatalytic reactions: O_2 reduction on Au(111) with Tl adlayers in acid solutions
N. M. MARKOVIĆ, H. A. GASTEIGER, P. N. ROSS JR, XUDONG JIANG, I. VILLEGAS and M. J. WEAVER	91	Electro-oxidation mechanisms of methanol and formic acid on Pt–Ru alloy surfaces
U. SCHMIEMANN, U. MÜLLER and H. BALTRUSCHAT	99	The influence of the surface structure on the adsorption of ethene, ethanol and cyclohexene as studied by DEMS
A. A. KORNYSHEV and I. VILFAN	109	Phase transitions at the electrochemical interface
K.-P. BOHNEN and K. M. HO	129	Surface structure of gold and silver (110)-surfaces
B. PETTINGER, J. LIPKOWSKI and S. MIRWALD	133	*In situ* SHG studies of adsorption induced surface reconstruction of Au(111)-electrodes
L. B. GOETTING, B. M. HUANG, T. E. LISTER and J. L. STICKNEY	143	Preparation of Au single crystals for studies of the ECALE deposition of CdTe
	159	Future Special Issues

161 Papers in Press

163 Electrochemical Calendar

167 Books Received

NUMBER 2

i ISE pages

M. RUDOLF, I. ROUŠAR and J. KRÝSA — 169 Influence of ion migration on cathodic reduction of hypochlorite anions

SHEN-JIANG XIA and WEI-FANG ZHOU — 175 Semiconducting properties of the anodic Pb(II) oxide film in alkaline solution

SHEN-JIANG XIA and WEI-FANG ZHOU — 181 The reduction process of the anodic Pb(II) oxide film on lead + bismuth alloy in sulfuric acid solution

C. DEBIEMME-CHOUVY, R. FILLIERES, J. VIGNERON, E. M. KHOUMRI, D. LE ROY and A. ETCHEBERRY — 189 Electrochemical characterization of GaSb in the presence of cerium species

MINGJUN LIU and SHAOJUN DONG — 197 Electrochemical behavior of molibdosilicic heteropoly complex with dysprosium and its doped polypyrrole film modified electrode

F. S. BOVARD, T. D. BURLEIGH and A. T. SMITH — 201 Electrochemical impedance spectroscopy of electrocoated aluminium food cans

R. D. SANCHEZ, R. M. TORRESI, C. RETTORI, S. OSEROFF and Z. FISK — 209 Electrochemical intercalation of O^{2-} in La_2CuO_4 single crystals

M. PROBST and R. HOLZE — 213 Time- and temperature-dependent changes of the *in situ* conductivity of polyaniline and polyindoline

G. INZELT and V. KERTÉSZ — 221 Enhanced frequency oscillations accompanying galvanostatic potential oscillations at Pt electrode in Cu^{2+} formic acid systems

H. INABA, M. IWAKU, K. NAKASE, H. YASUKAWA, I. SEO and N. OYAMA — 227 Electrochromic display device of tungsten trioxide and prussian blue films using polymer gel electrolyte of methacrylate

K. MOMOTA, H. HORIO, K. KATO, M. MORITA and Y. MATSUDA — 233 Electrochemical fluorination of aromatic compounds in liquid $R_4NF \cdot mHF$—part IV. Fluorination of chlorobenzene

M. SHAOLIN and K. JINQING — 241 Bioelectrochemical activation and inhibition of polyaniline glucose oxidase electrode by cations

Y. I. KHARKATS, A. V. SOKIRKO and F. H. BARK — 247 Properties of polarization curves for electrochemical cells described by Butler–Volmer kinetics and arbitrary values of the transfer coefficient

K. MESFAR, B. CARRE, J. DEVYNCK and F. BEDIOUI — 253 Electrochemical copolymerization of 5-amino-1,10-phenanthroline cobalt complex with 1,vinyl-imidazole in acetonitrile solution

T. JACOBSEN and K. WEST — 255 Diffusion impedance in planar, cylindrical and spherical symmetry

ELSA M. ARCE, J. G. IBANEZ and Y. MEAS — 263 Effect of metallic deposits on the photocurrent and stability of semiconducting *n*-CdTe electrodes in aqueous media

Short Communication

H. GOMEZ, R. SCHREBLER, R. CORDOVA, R. UGARTE and E. A. DALCHIELLE — 267 — Nucleation and growth of $CuInSe_2$ on a glassy carbon electrode

271 Future Special Issues

273 Papers in Press

275 Electrochemical Calendar

281 Books Received

NUMBER 3

i ISE pages

S. GOTTESFELD — 283 — Editorial

G. S. KUMAR, M. RAJA and S. PARTHASARATHY — 285 — High performance electrodes with very low platinum loading for polymer electrolyte fuel cells

JIAN-HUI YE and P. S. FEDKIW — 291 — A comparison of two post-casting treatment methods for perfluorosulfonated ionomer films

T. A. ZAWODZINSKI, J. DAVEY, J. VALERIO and S. GOTTESFELD — 297 — The water content dependence of electro-osmotic drag in proton-conducting polymer electrolytes

R. MANOHARAN and J. B. GOODENOUGH — 303 — Oxygen reduction on CrO_2 bonded to a proton-exchange membrane

R. S. CHEN, P. E. STALLWORTH, S. G. GREENBAUM, J. J. FONTANELLA and M. C. WINTERSGILL — 309 — High pressure NMR and electrical conductivity studies in acid form Nafion membranes

K. LEDJEFF, F. MAHLENDORF, V. PEINECKE and A. HEINZEL — 315 — Development of electrode/membrane units for the reversible solid polymer fuel cell (RSPFC)

H. H. VOSS, D. P. WILKINSON, P. G. PICKUP, M. C. JOHNSON and V. BASURA — 321 — Anode water removal: a water management and diagnostic technique for solid polymer fuel cells

M. WATANABE, H. IGARASHI and K. YOSIOKA — 329 — An experimental prediction of the preparation condition of nafion-coated catalyst layers for PEFCs

M. WAKIZOE, O. A. VELEV and S. SRINIVASAN — 335 — Analysis of proton exchange membrane fuel cell performance with alternate membranes

F. N. BÜCHI, B. GUPTA, O. HAAS and G. G. SCHERER — 345 — Study of radiation-grafted FEP-g-polystyrene membranes as polymer electrolytes in fuel cells

M. S. WILSON, J. A. VALERIO and S. GOTTESFELD — 355 — Low platinum loading electrodes for polymer electrolyte fuel cells fabricated using thermoplastic ionomers

365 Future Special Issues

367 Papers in Press

369 Electrochemical Calendar

375 Books Received

NUMBER 4

	i	ISE pages
H. WENDT	377	Editorial
B. STEFFEN and I. ROUSAR	379	Numerical methods for electrochemical modelling—I
L. MARTENS and K. HERTWIG	387	Modelling of current and potential distributions in louvered and extended metal electrodes
M. MATLOSZ	393	Modeling of impedance mechanisms in electropolishing
A. SALMI, Y. BERGHOUTE and F. LANTELME	403	Modelling multistep electrochemical reactions in molten salt electrowinning of refractory metals
R. MOSDALE and S. SRINIVASAN	413	Analysis of performance and of water and thermal management in proton exchange membrane fuel cells
K. SCOTT and Y. P. SUN	423	Simulation and reaction engineering of electrochemical gas/liquid reactions

REGULAR PAPERS

A. W. HASSEL and M. M. LOHRENGEL	433	Initial stages of cathodic breakdown of thin anodic aluminium oxide films
K. DAROWICKI	439	The amplitude analysis of impedance spectra
P. L. CABOT, J. A. GARRIDO, E. PÉREZ, A. H. MOREIRA and W. PROUD	447	EIS study of heat-treated Al–Zn–Mg alloys in the passive and transpassive potential regions
B. J. SEDDON, C. F. WANG, W. PENG and X. ZHANG	455	Preparation and amperometric response of carbon and platinum dual-cylinder microelectrodes
Z. P. LI and S. SUDA	467	Electrochemical durability of Ca-based alloys
R. F. JOHNSTON, R. E. BORJAS and J. L. FURILLA	473	Investigation of the electrochemical properties of substituted titanocene dichlorides
G. GOEMINNE, H. TERRYN and J. VEREECKEN	479	Characterisation of conversion layers on aluminium by means of electrochemical impedance spectroscopy
J. SZYNKARCZUK, P. G. KOMOROWSKI and J. C. DONINI	487	Redox reactions of hydrosulphide ions on the platinum electrode—II. An impedance spectroscopy study and identification of the polysulphide intermediates
C.-C. HU and T.-C. WEN	495	Voltammetric investigation of palladium oxides—I: their formation/reduction in NaOH
U. RAMMELT and G. REINHARD	505	Impedance analysis of conversion layers on iron
C. FRINGANT, A. TRANCHANT and R. MESSINA	513	Behavior of lithium–electrolyte interface during cycling in some ether-carbonate and carbonate mixtures
	525	Future Special Issues
	527	Papers in Press
	529	Electrochemical Calendar
	535	Books Received

NUMBER 5

	i	ISE pages
S.-I. TOBISHIMA, K. HAYASHI, K.-I. SAITO and J.-I. YAMAKI	537	Ethylene carbonate-based ternary mixed solvent electrolytes for rechargeable lithium batteries
T. FRELINK, W. VISSCHER and J. A. R. VAN VEEN	545	The third anodic hydrogen peak on platinum; subsurface H_2 adsorption
A. POPOV	551	Structural aspects of electrochemical adsorption on quasi-perfect silver and cadmium electrodes
C. IWAKURA, I. KIM, N. MATSUI, H. INOUE and M. MATSUOKA	561	Surface modification of Laves-phase $ZrV_{0.5}Mn_{0.5}Ni$ alloy electrodes with an alkaline solution containing potassium borohydride as a reducing agent
N. ALONSO-VANTE, H. TRIBUTSCH and O. SOLORZA-FERIA	567	Kinetics studies of oxygen reduction in acid medium on novel semiconducting transition metal chalcogenides
H.-P. WELZEL, G. KOSSMEHL, H.-J. STEIN, J. SCHNEIDER and W. PLIETH	577	Reactive groups on polymer covered electrodes—I. Electrochemical copolymerization of thiophene-3-acetic acid with 3-methylthiophene
E. O. VILAR and F. COEURET	585	Mass transfer to flow-through thin porous electrodes under laminar flow
M. BOJINOV, I. KANAZIRSKI and A. GIRGINOV	591	Barrier oxide film vs. salt layer formation on bismuth in tartaric acid solutions
L.-G. SUNDSTRÖM and F. H. BARK	599	On morphological instability during electrodeposition with a stagnant binary electrolyte
M. WASBERG and G. HORÁNYI	615	Electrocatalytic reduction of nitric acid at rhodized electrodes and its inhibition by chloride ions
J. HLAVATÝ	625	Anodic alkoxylation of *N*-phenylsulfonylpyrrole
M. WÜNSCHE, H. MEYER and R. SCHUMACHER	629	Formation and properties of UPD copper deposits on polycrystalline platinum electrodes
S. FRANGINI and J. LASCOVICH	637	*AC* impedance study of passive B2 FeAl intermetallic alloy in sulphuric acid
L. KAVAN and M. GRÄTZEL	643	Highly efficient semiconducting TiO_2 photoelectrodes prepared by aerosol pyrolysis
	653	Book Review
	655	Future Special Issues
	657	Papers in Press
	659	Electrochemical Calendar
	665	Books Received

NUMBER 6

	i	ISE pages
W. LOU and K. OGURA	667	Current oscillations observed on a stainless steel electrode in sulfuric acid solutions with and without chromic acid
J. BARKER and R. KOKSBANG	673	The interfacial impedance variation of V_6O_{13} composite electrodes during lithium insertion and extraction

P. J. KULESZA, S. ZAMPONI, M. BERRETTONI, R. MARASSI and M. A. MALIK	681	Preparation, spectroscopic characterization and electrochemical charging of the sodium-containing analogue of Prussian Blue
D. VANMAEKELBERGH, B. H. ERNÉ, C. W. CHEUNG and R. W. TJERKSTRA	689	On the increase of the photocurrent quantum efficiency of GaP photoanodes due to (photo)anodic pretreatments
G. PATERMARAKIS and K. MOUSSOUTZANIS	699	Electrochemical kinetic study on the growth of porous anodic oxide films on aluminium
G. BARRAL, F. NJANJO-EYOKE and S. MAXIMOVITCH	709	Growth of a nickel oxide layer on a rotating nickel electrode in a non-buffered solution of sodium sulfate
O. KERREC, D. DEVILLIERS, H. GROULT and M. CHEMLA	719	Dielectric properties of anodic oxide films on tantalum
R. ERIKSSON	725	Experimental determinations of concentration fields in the copper and silver refining systems using probe-beam deflection
JINGDONG ZHANG, QIJIN CHI, ERKANG WANG and SHAOJUN DONG	733	A comparative study on STM imaging and electrocatalytic activity of different surfaces modified with flavin adenine dinucleotide
S. KOMATSU, M. TANAKA, A. OKUMURA and A. KUNGI	745	Preparation of Cu–solid polymer electrolyte composite electrodes and application to gas-phase electrochemical reduction of CO_2
D. SAZOU and M. PAGITSAS	755	Experimental bifurcation analysis of the cobalt/phosphoric acid electrochemical oscillator
K. DAROWICKI	767	Theoretical description of fundamental-harmonic impedance of a two-step electrode reaction
P. SCHMUKI and H. BÖHNI	775	Illumination effects on the stability of the passive film on iron
S. BACH, J.-P. PEREIRA-RAMOS, C. CACHET, M. BODE and LIANG TSE YU	785	Effect of Bi-doping on the electrochemical behaviour of layered MnO_2 as lithium intercalation compound
	791	Future Special Issues
	793	Papers in Press
	795	Electrochemical Calendar
	801	Books Received

NUMBER 7

	i	ISE pages
V. JOUIKOV and M. POSTNIKOVA	803	Effect of concentration on oxidation potentials of alkylarylselenides
M. J. ESPLANDIU, E. M. PATRITO and V. A. MACAGNO	809	Characterization of hafnium anodic oxide films: an *ac* impedance investigation
YU. E. ROGINSKAYA and O. V. MOROZOVA	817	The role of hydrated oxides in formation and structure of DSA-type oxide electrocatalysts
J. NIU and S. DONG	823	An integrated calcium fluoride crystal *ir* thin-layer cell and its application to identification of electrochemical reduction product of bilirubin
A. KUNUGI, S. MORI, S. KOMATSU, H. MATSUI, H. UNO and K. SAKAMOTO	829	Electrochemical method to vinyl fluorides (II). Cathodic cleavage and carboxylation of 1-fluoro-2-(4-biphenylyl)vinyl phenyl sulphoxide in nonaqueous media

A. A. HERMAS, K. OGURA and T. ADACHI	837	Accumulation of copper layer on a surface in the anodic polarization of stainless steel containing Cu at different temperatures
Y. FUKUMOTO, M. MIYAMATO, M. MATSUOKA and C. IWAKURA	845	Effect of the stoichiometric ratio on electrochemical properties of hydrogen storage alloys for nickel–metal hydride batteries
H. TANG, A. KITANI, S. MAITANI, H. MUNEMURA and M. SHIOTANI	849	Electropolymerization of aniline modified by *para*-phenylenediamine
G. M. BRISARD, J. D. RUDNICKI, F. MCLARNON and E. J. CAIRNS	859	Application of probe beam deflection to study the electrooxidation of copper in alkaline media
P. MANOLATOS, M. JEROME and J. GALLAND	867	Necessity of a palladium coating to ensure hydrogen oxidation during electrochemical permeation measurements on iron
M. BOJINOV, I. KANAZIRSKI and A. GIRGINOV	873	Anodic film growth on antimony in H_3PO_4 solutions
H. TSUTSUMI and K. FUJITA	879	New type polyamides containing disulfide bonds for positive active material of energy storage batteries
N. HOSHI, T. MIZUMURA and Y. HORI	883	Significant difference of the reduction rates of carbon dioxide between Pt(111) and Pt(110) single crystal electrodes
Y. KAMEGAYA, K. SASAKI, M. OGURI, T. ASAKI, H. KOBAYASHI and T. MITAMURA	889	Improved durability of iridium oxide coated titanium anode with interlayers for oxygen evolution at high current densities
D. A. SHIFLER, P. J. MORAN and J. KRUGER	897	The passive behavior of 304 stainless steel in PC–H_2O and DME–H_2O mixtures
M. V. VÁZQUEZ, M. J. AVENA and C. P. DE PAULI	907	Dehydration process on nickel hydroxide: its influence on the electrochemical behaviour of Pt/$Ni(OH)_2$ electrodes
K. KANAMURA, H. TAMURA, S. SHIRAISHI and Z.-I. TAKEHARA	913	XPS analysis for the lithium surface immersed in γ-butyrolactone containing various salts
Short communication G. MARROSU, R. PETRUCCI and A. TRAZZA	923	Electroreduction of *N*-benzyl-*N*-nitrosoanthranilic acid to 1-benzyl-1,2-dihydro-3H-indazol-3-one
	927	Future Special Issues
	929	Papers in Press
	931	Electrochemical Calendar
	937	Books Received

NUMBER 8

	i	ISE pages
C. REROLLE and R. WIART	939	Kinetics of Pb and Pb-Ag anodes for zinc electrowinning—I. Formation of $PbSO_4$ layers at low polarization
J. BARKER, E. S. SAIDI and M. Y. SAIDI	949	An investigation into the discharge capacity loss for composite insertion electrodes based on $Li_xV_6O_{13}$
C. ROUX and J.-Y. SANCHEZ	953	Ionic behaviour of alkaline complexes based on linear and crosslinked poly(oxypropylene)
QIAN-KUN ZHUANG and XIAO-XIA GAO	959	The voltammetric behavior of water-soluble ytterbium porphyrin complex in aqueous media

CHIA-CHIEN LEE and TSE-CHUAN CHOU	965	Effects of magnetic field on the reaction kinetics of electroless nickel deposition
K. CEDZYNSKA	971	Properties of modified electrolyte for zinc–bromine cells
C. IWAKURA, M. TANAKA, S. NAKAMATSU, H. INOUE, M. MATSUOKA and N. FURUKAWA	977	Electrochemical properties of Ni/(Ni + RuO_2) active cathodes for hydrogen evolution in chlor-alkali electrolysis
J. M. MARIOLI and L. E. SERENO	983	The potentiodynamic behavior of nickel–chromium (80 : 20) alloy electrodes in 0.10 N sodium hydroxide
G. B. APPETECCHI, F. CROCE and B. SCROSATI	991	Kinetics and stability of the lithium electrode in poly(methylmethacrylate)-based gel electrolytes
YOUNG-GI YOON and SU-IL PYUN	999	Hydrogen transport through plasma enhanced chemical vapour-deposited TiO_2 film–palladium bilayer by *ac*-impedance spectroscopy
A. A. KAMNEV, Y. D. PERFILYEV and V. ANGELOV	1005	Mössbauer study of solid phases formed in highly alkaline electrolytes containing ferric hydroxo complexes: the effect of ageing
J. ST-PIERRE, N. MASSÉ and M. BERGERON	1013	Dissolved oxygen concentration in a divided rotating cylinder electrode reactor
XIAODAN XI, GUANG WANG, BAIFENG LIU and SHAOJUN DONG	1025	Electrochemical behavior of bis(2 : 17-arsenotungstate) lanthanates and their electrocatalytic reduction for nitrite
V. I. SHAPOVAL, I. A. NOVOSYOLOVA, V. V. MALYSHEV and H. B. KUSHKHOV	1031	Electrochemical behaviour of diamonds in ionic melts
C. BARBERO, R. I. TUCCERI, D. POSADAS, J. J. SILBER and L. SERENO	1037	Impedance characteristics of poly-*O*-aminophenol electrodes
S. CATTARIN, P. GUERRIERO, N. DIETZ and H. J. LEWERENZ	1041	Electrodissolution and corrosion of $CuInS_2$ photoanodes with lamellar morphology
E. PALIBRODA	1051	Aluminum porous oxide growth—II. On the rate determining step
WEI WANZHI, XIE QINGJI and YAO SHOUZHUO	1057	A kinetic parameter estimation technique with long path length spectroelectrochemical method
C. B. KRIZ, E. PALMQVIST and D. KRIZ	1063	*DC*-resistometric stability studies on a conducting polymer (polypyrrole) film in an aqueous solution
	1067	Future Special Issues
	1069	Papers in Press
	1071	Electrochemical Calendar
	1077	Books Received

NUMBER 9

	i	ISE pages
H. S. KARAYANNIS and G. PATERMARAKIS	1079	Effect of the Cl^- and SO_4^{2-} ions on the selective orientation and structure of Ni electrodeposits
I. TURYAN and D. MANDLER	1093	Electrochemical study of the Cd(II)/Cd(Hg) system in 2-mercaptoacetic acid solutions

S. I. Córdoba de Torresi	1101	The effect of manganese addition on nickel hydroxide electrodes with emphasis on its electrochromic properties
C. X. Cai, H. X. Ju and H. Y. Chen	1109	The effects of temperature and electrolyte on the redox potential of cytochrome *c* at a chemically modified microband gold electrode
J. J. García-Jareño, J. J. Navarro, A. F. Roig, H. Scholl and F. Vicente	1113	Impedance analysis of Prussian blue films deposited on ITO electrodes
F. Vicente, J. J. Garcia-Jareño, R. Tamarit, A. Cervilla and A. Domenech	1121	Electrochemical reduction of the nitrite to ammonium ions in presence of $[MoO_2(O_2CC(S)C_6H_5)_2]^{2-}$
M. Tölgyesi, A. Szücs, Cs. Visy and M. Novák	1127	Redox anion doped polypyrolle films; electrochemical behaviour of polypyrrole prepared in $Fe(CN)_6$ solution
R. D. Armstrong and C. A. Hall	1135	The corrosion of metals in contact with ester oils containing water at 60 and 150°C
D. A. Kaplin and S. Qutubuddin	1149	Switching reaction of conductive polymers. Part 2—application of charge transfer model to polypyrrole
A. A. Pud, G. S. Shapoval, V. P. Kukhar, O. E. Mikulina, and L. L. Gervits	1157	Electrochemical reduction of some saturated and unsaturated perfluorocarbons
R. S. Gonçalves, J. A. Mallmann and E. W. Grabner	1165	Effect of light on the electrooxidation of adsorbed allyl alcohol on platinum electrodes
Joong-Do Kim, Su-Il Pyun, J. Pyun and R. A. Oriani	1171	Effects of applied current density and potential step on the stress generation during anodic oxidation of tungsten in 0.1 M H_2SO_4 solution
Yuanwu Xie, Ting Chen and Shaojun Dong	1177	Influence on the thin layer spectroelectrochemistry: diffusion within a thin layer cell
F. E. Varela, E. N. Codaro and J. R. Vilche	1183	Computer simulation describing the electroreduction of thin PbO layers formed on Pb in H_2SO_4 solutions
Yu. G. Pastukhov	1191	Differential surface tension of solid metal–molten alkali halide interfaces
Short Communications		
A. C. Partridge	1199	Ion transport membranes based on conducting polymers
J. A. Schimpf, A. Carrasquillo, Jr. and M. P. Soriaga	1203	Electrochemical digital etching in inert electrolyte: reordering of ion-bombarded Pd(100) by chemisorbed-iodine-catalyzed dissolution
	1207	Future Special Issues
	1209	Papers in Press
	1211	Electrochemical Calendar
	1217	Books Received

NUMBER 10

	i	ISE pages
W. J. Lorenz	1219	Editorial
	1221	Award of the Hellmuth Fischer Medal to Dr. Roger Charles Newman

Plenary Lectures

D. Carnal, P. I. Oden, U. Müller, E. Schmidt and H. Siegenthaler — 1223 — *In-situ* STM investigation of Tl and Pb underpotential deposition on chemically polished Ag(111) electrodes

M. H. Hölzle, V. Zwing and D. M. Kolb — 1237 — The influence of steps on the deposition of Cu onto Au(111)

K. Ogaki and K. Itaya — 1249 — *In situ* scanning tunneling microscopy of underpotential and bulk deposition of silver on gold (111)

F. Möller, O. M. Magnussen and R. J. Behm — 1259 — CuCl adlayer formation and Cl induced surface alloying: an *in situ* STM study on Cu underpotential deposition on Au(110) electrode surfaces

I. Villegas, Xiaoping Gao and M. J. Weaver — 1267 — Local structure and phase transitions within ordered electrochemical adlayers: some new insights from *in situ* scanning tunneling microscopy

H. Gerischer — 1277 — Photocatalysis in aqueous solution with small TiO_2 particles and the dependence of the quantum yield on particle size and light intensity

R. J. Haug — 1283 — Single-electron tunneling through semiconducting nanostructures

M. Froment and D. Lincot — 1293 — Phase formation processes in solution at the atomic level: metal chalcogenide semiconductors

J. L. Zubimendi, G. Andreasen and W. E. Triaca — 1305 — The influence of Pt crystallite surface morphology on oxygen electroreduction

W. Schmickler — 1315 — Measuring the redox density of states with a scanning tunneling microscope: a theoretical investigation

D. C. Jurbergs, S. G. Haupt, Rung-Kuang Lo, C. T. Jones, Jianai Zhao and J. T. McDevitt — 1319 — Electrochemical and optical devices based on molecule/high-Tc superconductor structures

J. N. Richardson, G. K. Rowe, M. T. Carter, L. M. Tender, L. S. Curtin, S. R. Peck and R. W. Murray — 1331 — Electron transfer kinetics of self-assembled ferrocene (C12)Alkanethiol monolayers on gold electrodes from 125 K to 175 K

A. Goossens and J. Schoonman — 1339 — Electrochemical investigations of silicon/boron phosphide heterojunction photoelectrodes

M. Koinuma and K. Uosaki — 1345 — An electrochemical AFM study on electrodeposition of copper on *p*-GaAs(100) surface in HCl solution

P. Allongue, V. Kieling and H. Gerischer — 1353 — Etching mechanism and atomic structure of H–Si(111) surfaces prepared in NH_4F

H. Böhni, T. Suter and A. Schreyer — 1361 — Micro- and nanotechniques to study localized corrosion

J. W. Schultze and K. G. Jung — 1369 — Regular nanostructured systems formed electrochemically: deposition of electroactive polybithiophene into porous silicon

Local Probe Methods and Nanostructures

J. Halbritter, G. Repphun, S. Vinzelberg, G. Staikov and W. J. Lorenz — 1385 — Tunneling mechanisms in electrochemical STM—distance and voltage tunneling spectroscopy

C. Kobusch and J. W. Schultze — 1395 — Problems of tunneling spectroscopy at oxide covered Ti

N. Breuer, U. Stimming and R. Vogel — 1401 — Formation, stability, and dissolution of clusters on electrodes monitored by *in-situ* STM

R. Nyffenegger, E. Ammann, H. Siegenthaler, R. Kötz and O. Haas	1411	*In-situ* scanning probe microscopy for the measurement of thickness changes in an electroactive polymer
G. Nagy	1417	Structure of platinum/water interface as reflected by STM measurements
Ch. Froeck, A. Bartl and L. Dunsch	1421	STM- and AFM-investigations of one- and two-dimensional polypyrrole structures on electrodes
A. Neudeck and L. Dunsch	1427	Micro structured electrode materials in UV/VIS spectro-electrochemical cells
M. Jeske, J. W. Schultze and H. Münder	1435	Porous silicon: base material for nanotechnologies
G. Wouters, M. Bratoeva, J.-P. Celis, J. R. Roos	1439	Electrocrystallisation of tin in presence of organic additives in view of the synthesis of NiP/Sn multilayers
K. Borgwarth, D. Ebling and J. Heinze	1455	Applications of scanning ultra micro electrodes for studies on surface conductivity
Electrocrystallization		
W. Kautek, S. Reetz and S. Pentzien	1461	Template electrodeposition of nanowire arrays on gold foils fabricated by pulsed-laser deposition
R. T. Pötzschke, C. A. Gervasi, S. Vinzelberg, G. Staikov and W. J. Lorenz	1469	Nanoscale studies of Ag electrodeposition on HOPG (0001)
A. Milchev and R. Lacmann	1475	Electrochemical growth of single metal and alloy clusters—Part II. Potentiostatic conditions. Theory
R. J. Nichols, D. Schröer and H. Meyer	1479	An *in situ* scanning probe microscopy study of copper electrodeposition on conductive polypyrrole
D. Schröer, R. J. Nichols and H. Meyer	1487	Pretreatment of polymer surfaces—the crucial step prior to metal deposition
A. Popov, N. Dimitrov, T. Vitanov, D. Kashchiev and E. Budevski	1495	Modelling transformation processes in underpotential lead adsorbate on Ag(111)
Adsorption and Catalysis		
B. E. Conway	1501	The solvation factor in specificity of ion adsorption at electrodes
D. Kouznetsov, A. Sugier, F. Ropital and C. Fiaud	1513	Investigation of electrosorption of a quaternary ammonium salt using an electrochemical quartz crystal microbalance
A. Meier, I. Uhlendorf and D. Meissner	1523	Electrochemical features of electrodes modified with multiple nano contacts (MNCs) from colloidal noble metal particles
T. Frelink, W. Visscher, A. P. Cox and J. A. R. van Veen	1537	Ellipsometry and DEMS study of the electrooxidation of methanol at Pt and Ru- and Sn- promoted Pt
Corrosion, Passivity and Oxides		
J. R. Dygas, P. Kurek and M. W. Breiter	1545	Structure-dependent impedance of BICUVOX
V. I. Birss, S. C. Thomas and A. J. Zhang	1551	Electrochemical and transmission electron microscopic characterization of metal oxide films
S. Alonso-Romanowski, L. M. Gassa and J. R. Vilche	1561	An investigation by EIS of gramicidin channels in bilayer lipid membranes
	1569	Future Special Issues

1571 Papers in Press

1573 Electrochemical Calendar

1579 Books Received

NUMBER 11

i ISE pages

R. PHILIPP and U. RETTER 1581 On transition from 2D to 3D nucleation in the anodic film formation of thiourea at the mercury/electrolyte interphase

E. STEUDEL, J. POSDORFER and R. N. SCHINDLER 1587 Intermediates and products in the electrochemical reduction of nitrosobenzene. A spectroelectrochemical investigation

D. A. FIEDLER and H. P. FRITZ 1595 Quasi continuous electrodeposition of CdTe thin films

J. BARKER 1603 Three electrode electrochemical voltage spectroscopy (TEVS): evaluation of a model lithium ion system

M. R. KALANTARY, G. D. WILCOX and D. R. GABE 1609 The production of compositionally modulated alloys by simulated high speed electrodeposition from a single solution

V. JOUIKOV and V. IVKOV 1617 Field-effect in electrochemical reactivity of alkylarylselenides

A. M. ESPINOSA, M. L. TASCÓN, P. ENCINAS, M. D. VÁZQUEZ and P. SÁNCHEZ-BATANERO 1623 Electrochemical behaviour of copper, lead, and bismuth solid compounds and their ternary mixtures at solid state at a carbon paste electrode with electrolytic binder. Application to the study of the high transition temperature superconductor $Bi_{0.7} \cdot Pb_{0.3} \cdot Sr \cdot Ca \cdot Cu_{1.8} \cdot O_x$.

I. PASEKA 1633 Evolution of hydrogen and its sorption on remarkable active amorphous smooth Ni–P(x) electrodes

E. FONTES, M. FONTES and D. SIMONSSON 1641 A heterogeneous model for the MCFC cathode

C. Q. CUI and JIM Y. LEE 1653 Nickel deposition from unbuffered neutral chloride solutions in the presence of oxygen

M. ISHIKAWA, H. ENOMOTO, M. MATSUOKA and C. IWAKURA 1663 Effect of some factors on electrodeposition of nickel–copper alloy from pyrophosphate–tetraborate bath

D. SICKER, H. HARTENSTEIN, C. MOUATS, R. HAZARD and A. TALLEC 1669 Electrochemical reduction of *o*-nitrophenylthioacetic derivatives. Production of 2H-1,4-benzothiazines

B. LINDHOLM-SETHSON, T. TJÄRNHAGE and M. SHARP 1675 On the measurements of pseudocapacitances in thin polymer films on electrode surfaces

L. DUIĆ, Z. MANDIĆ and S. KOVAČ 1681 Polymer-dimer distribution in the electrochemical synthesis of polyaniline

T. G. J. VAN VENROOIJ and M. T. M. KOPER 1689 Bursting and mixed-mode oscillations during the hydrogen peroxide reduction on a platinum electrode

DONG-WON KIM, JUN-SEOB SONG and JUNG-KI PARK 1697 Synthesis, characterization and electrical properties of the novel polymer electrolytes based on polyesters containing ethylene oxide moiety

I. I. OLSEN, R. KOKSBANG and E. SKOU 1701 Transference number measurements on a hybrid polymer electrolyte

HONG WANG 1707 Warburg type impedance in thin layer unsupported electrochemical cells containing associated salts

L. LEGRAND, M. HEINTZ, A. TRANCHANT and R. MESSINA	1711	Sulfone-based electrolytes for aluminum electrodeposition
P. WASZCZUK, P. ZELENAY and J. SOBKOWSKI	1717	Surface interaction of benzoic acid with a copper electrode
T. P. MOFFAT, R. M. LATANISION and R. R. RUF	1723	An X-ray photoelectron spectroscopy study of chromium-metalloid alloys—III
L. V. DAS CHAGAS, E. W. GRABNER and R. S. GONÇALVES	1735	Some evidence of the influence of light on the electrochemical behavior of copper in the presence and absence of propargyl alcohol
E. SIEBERT, A. HAMMOUCHE and M. KLEITZ	1741	Impedance spectroscopy analysis of $La_{1-x}Sr_xMnO_3$–Yttria-stabilized zirconia electrode kinetics
I. B. SINGH, S. SULTAN and K. BALAKRISHNAN	1755	Cathodic process on iron in $NaNO_3$ and KNO_3 melts
I. D. MAKUTA, S. K. POZNYAK and A. I. KULAK	1761	Photoelectrochemical determination of bandgap energy in surface layers formed on semiconductor electrodes
N. KHALIL and J. S. L. LEACH	1769	The anodic oxidation of valve metals—III Transport processes and their correlation with film contamination by fluoride as measured by XPS
M. A. SANTA-ANA, V. SANCHEZ and G. GONZALEZ	1773	Temperature effects on the diffusion of lithium in MoS_2
M. METIKOŠ-HUKOVIĆ, A. REŠETIĆ and V. GVOZDIĆ	1777	Behaviour of tin as a valve metal
Short Communications		
Š. KOMORSKY-LOVRIĆ and M. LOVRIĆ	1781	Measurements of redox kinetics of adsorbed azobenzene by "a quasireversible maximum" in square-wave voltammetry
M. YASUZAWA, K. KAN, A. KUNUGI, Z. OGUMI and Z.-I. TAKEHARA	1785	Electrooxidation of benzyl alcohol on Pt-Nafion composite electrode
X. LING, Z. H. GU and T. Z. FAHIDY	1789	An application of confocal scanning beam laser microscopy (CSBLM) to the electrodeposition of copper
	1795	Future Special Issues
	1797	Papers in Press
	1799	Electrochemical Calendar
	1803	Books Received

NUMBER 12

	i	ISE pages
A. M. MARTRE, G. MOUSSET, M. PRUDHOMME and E. RODRIGUES-PEREIRA	1805	Concomitant cathodic cleavage of carbamates and carbon-bromine bonds as key steps in the enzyme inhibitors synthesis
F. M. AL-KHARAFI and W. A. BADAWY	1811	Corrosion and passivation of Al and Al-Si alloys in nitric acid solutions II—Effect of chloride ions
D. B. ZHOU and H. VANDER POORTEN	1819	Electrochemical characterisation of oxygen reduction on teflon-bonded gas diffusion electrodes

J.-C. Moutet, Y. Ouennoughi, A. Ourari and S. Hamar-Thibault	1827	Electrocatalytic hydrogenation on noble metal particles dispersed in polymer films. Enhanced catalytic activity induced by the incorporation of bimetallic catalysts
A. Kolics and K. Varga	1835	Coupled *in situ* radiochemical and electrochemical study of cobalt accumulation on polycrystalline gold
Haiying Liu and Jiaqi Deng	1845	An amperometric lactate sensor employing tetrathiafulvalene in nafion film as electron shuttle
S. V. Mello, L. H. C. Mattoso, J. R. Santos Jr., D. Gonçalves, R. M. Faria and O. N. Oliveira Jr.	1851	Electrochemical response of poly(o-ethoxyaniline) films produced by different techniques
G. S. Popkirov, E. Barsoukov and R. N. Schindler	1857	Electrochemical impedance spectroscopy of twin working electrodes bridged with conducting polymer layer
J. Kim and S. I. Pyun	1863	Effects of electrolyte composition and applied potential on the repassivation kinetics of pure aluminium
C. Arbizzani, M. Catellani, M. Mastragostino and C. Mingazzini	1871	*N*- and *p*-doped polydithieno[3,4-B:3′,4′-D] thiophene: a narrow band gap polymer for redox supercapacitors
F. Miralles-Roch, A. Tallec and R. Tardivel	1877	Electrochemical conversion of α-nitrobenzylic compounds into the corresponding oximes Part 3—Substituent effects
G. T. Burstein and R. M. Souto	1881	Observations of localised instability of passive titanium in chloride solution
X.-G. Zhang, T. Arikawa, Y. Murakami, K. Yahikozawa and Y. Takasu	1889	Electrocatalytic oxidation of formic acid on ultrafine palladium particles supported on a glassy carbon
G. Mengoli, M. Fabrizio, C. Manduchi, G. Zannoni and P. Guerriero	1899	Electrolytic insertion/extraction of hydrogen (deuterium) at Au/Pd surface
F. Alloin, C. R. Herrero, J. Y. Sanchez, D. Delabouglise and M. Armand	1907	Ionic conductivity of polymer electrolytes obtained by polycondensation from PEGs; redox properties induced within a polyether-aryl
M. S. Ibrahim	1913	Adsorption stages and interfacial orientations of cytidine sulphate at the mercury/electrolyte interface
Q. M. Yang, M. Ciureanu, D. H. Ryan and J. O. Ström-Olsen	1921	A discussion on the equilibrium potential and exchange current of hydride electrodes
K. Yamada, T. Nishina and I. Uchida	1927	Kinetic study of oxygen reduction in molten Li_2CO_3–Na_2CO_3 under pressurized conditions
J.-Y. Tilquin, E. Herman, J. Glibert and P. Claes	1933	*In situ* electrochemical investigation of copper in binary sodium silicate melts at 1000°C
A. Nurhadi, E. Graf and M. Gross	1939	Electrochemical reduction of Fe^{II}, Co^{II}, Ni^{II} complexes with new tetraaza-, open tetradentate ligands
U. Tormin and F. Beck	1955	Transport of intercalated anions in graphite according to Walden's rule
S.-I. Pyun and E.-J. Lee	1963	Effect of halide ion and applied potential on repassivation behaviour of Al–1 wt.%Si–0.5 wt.%Cu alloy
M. J. L. Østergård, C. Clausen, C. Bagger and M. Mogensen	1971	Manganite–zirconia composite cathodes for SOFC: influence of structure and composition

A. V. Sokirko and F. H. Bark	1983	Diffusion–migration transport in a system with Butler–Volmer kinetics, an exact solution
J. Krysa and R. Mraz	1997	Experimental investigation of the double layer capacity, X-ray diffraction and the relative surface content of TiH_2 during pretreatment of titanium used for the preparation of dimensionally stable anodes with RuO_2 and/or IrO_2 coating
B. Sajdl, K. Micka and P. Krtil	2005	Study of the rechargeable manganese dioxide electrode
E. Kuzmann, Cs. Vértes, A. Vértes, S. Vitkova, I. A. Novochatskii and C. U. Chisholm	2013	Comparative Mössbauer study of short range ordering in electrodeposited and rapidly quenched amorphous alloys
Short Communication M. Okano, T. Kugita, D. Ohtani and H. Hamano	2017	NMR study on the electrogenerated triphenylmethyl anion
	2019	Book reviews
	2021	Future Special Issues
	2023	Papers in Press
	2025	Electrochemical Calendar
	2029	Books received

NUMBER 13–14

	i	ISE pages
S. Greenbaum	2031	Editorial
Characterization, mechanisms and models	2033	
C. A. Vincent	2035	Ion transport in polymer electrolytes
M. C. Lonergan, D. F. Shriver and M. A. Ratner	2041	Polymer electrolytes: the importance of ion-ion interactions in diffusion dominated behavior
R. Bergman, A. Brodin, D. Engberg, Q. Lu, C. A. Angell and L. M. Torell	2049	Fast and slow relaxation processes in polymer electrolytes
C. R. A. Catlow and G. E. Mills	2057	Computer simulation of ionically conducting polymers
S. Neyertz, D. Brown and J. O. Thomas	2063	Molecular dynamics simulation of the crystalline phase of poly(ethylene oxide)–sodium iodide, PEO_3NaI
I. M. Ward, N. Boden, J. Cruickshank and S. A. Leng	2071	NMR studies of ionic mobility and molecular mobility in polymer electrolytes
P. G. Bruce	2077	Structure and electrochemistry of polymer electrolytes
V. A. Payne, Jian-Hua Xu, M. Forsyth, M. A. Ratner, D. F. Shriver and S. W. de Leeuw	2087	Ion clustering in molecular dynamics simulations of sodium iodide solutions
S. Chintapalli and R. Frech	2093	Ionic association and conductivity in poly(ethylene oxide) and poly(propylene oxide) metal salt systems
J. Przyluski, M. Siekierski and W. Wieczorek	2101	Effective medium theory in studies of conductivity of composite polymeric electrolytes
D. Martin-Vosshage and B. V. R. Chowdari	2109	XPS studies on $(PEO)_nLiCF_3SO_3$ and $(PEO)_nCu(CF_3SO_3)_2$ polymer electrolytes
J. McBreen, X. Q. Yang, H. S. Lee and Y. Okamoto	2115	EXAFS studies of mixed salt $CoBr_2/LiBr$—PEO complexes

M. Aziz, R. J. Latham, R. G. Linford and W. S. Schlindwein	2119	X-ray spectroscopy of polymer electrolytes
M. Perrier, S. Besner, C. Paquette, A. Vallée, S. Lascaud and J. Prud'homme	2123	Mixed-alkali effect and short-range interactions in amorphous poly(ethylene oxide) electrolytes
D. R. MacFarlane, J. Sun, P. Meakin, P. Fasoulopoulos, J. Hey and M. Forsyth	2131	Structure-property relationships in plasticized solid polymer electrolytes
P. E. Stallworth, S. G. Greenbaum, F. Croce, S. Slane and M. Salomon	2137	Lithium-7 NMR and ionic conductivity studies of gel electrolytes based on poly(methylmethacrylate)
L. D. Carlos, A. L. L. Videira, M. Assunção and L. Alcácer	2143	Local coordination of europium(III) in poly(ethylene oxide) and poly(propylene oxide)
W. Huang, R. Frech, P. Johansson and J. Lindgren	2147	Cation–polymer interaction and ionic association in diglyme-$LiCF_3SO_3$ and diglyme-propylene carbonate-$LiCF_3SO_3$ complexes
A. Reiche, T. Steurich, B. Sandner, P. Lobitz and G. Fleischer	2153	Ion transport in gel electrolytes
L. Christie, P. Los and P. G. Bruce	2159	The polymer electrolyte/electrode interface
T. Matsui and K. Takeyama	2165	Lithium deposit morphology from polymer electrolytes
Technological applications	2171	
T. Koyamada and H. Ishihara	2173	Research and development program of lithium battery in Japan
K. Murata	2177	An overview of the research and development of solid polymer electrolyte batteries
D. Fauteux, A. Massucco, M. McLin, M. van Buren and J. Shi	2185	Lithium polymer electrolyte rechargeable battery
M. Doyle and J. Newman	2191	The use of mathematical modeling in the design of lithium/polymer battery systems
E. Peled, D. Golodnitsky, G. Ardel and V. Eshkenazy	2197	The SEI model—application to lithium-polymer electrolyte batteries
M. M. Doeff, S. J. Visco, Yanping Ma, Marcus Peng, Lei Ding and L. C. De Jonghe	2205	Thin film solid state sodium batteries for electric vehicles
A. Anani, F. Eschbach, J. Howard, F. Malaspina and V. Meadows	2211	Impedance effects of rechargeable batteries on digital communication devices
M. Ishikawa, M. Ihara, M. Morita and Y. Matsuda	2217	Electric double layer capacitors with new gel electrolytes
C. Arbizzani, M. Mastragostino and L. Meneghello	2223	Characterization by impedance spectroscopy of a polymer-based supercapacitor
H. Okuzaki and Y. Osada	2229	Electro-driven polyelectrolyte gel with biomimetic motility
J. C. Gustafsson-Carlberg, O. Inganäs, M. R. Andersson, C. Booth, A. Azens and C. G. Granqvist	2233	Tuning the bandgap for polymeric smart windows and displays
New materials	2237	
Q. Lu, E. Sanchez and C. A. Angell	2239	Rubbery behavior from low molecular weight polymers using high field cation endlinkers
J. P. Lemmon, J. Wu, C. Oriakhi and M. M. Lerner	2245	Preparation of nanocomposites containing poly(ethylene oxide) and layered solids

W. Wieczorek, Z. Florjanczyk and J. R. Stevens	2251	Composite polyether based solid electrolytes
D. Benrabah, S. Sylla, F. Alloin, J.-Y. Sanchez and M. Armand	2259	Perfluorosulfonate-polyether based single ion conductors
T. Ichino, M. Matsumoto, Y. Takeshita, J. S. Rutt and S. Nishi	2265	New concept for polymer electrolyte: dual-phase polymer electrolyte
F. Alloin and J.-Y. Sanchez	2269	New solvating polyether networks
G. Nagasubramanian, D. H. Shen, S. Surampudi, Q. Wang and G. K. Surya Prakash	2277	Lithium superacid salts for secondary lithium batteries
C. Schoenenberger, J. F. Le Nest and A. Gandini	2281	Polymer electrolytes based on modified polysaccharides. 2. Polyether-modified cellulosics
M. Watanabe, S. Yamada and N. Ogata	2285	Ionic conductivity of polymer electrolytes containing room temperature molten salts based on pyridinium halide and aluminium chloride
H. S. Choe, J. Giaccai, M. Alamgir, and K. M. Abraham	2289	Preparation and characterization of poly(vinyl sulfone)- and poly(vinylidene fluoride)-based electrolytes
X. Andrieu, J. F. Fauvarque, A. Goux, T. Hamaide, R. M'hamdi and T. Vicedo	2295	Solid polymer electrolytes based on statistical poly (ethylene oxide–propylene oxide) copolymers
J. Sun, D. R. Macfarlane and M. Forsyth	2301	Poly methacrylate-plasticiser-salt blends as solid polymer electrolytes
M. Popall and Xin-Min Du	2305	Inorganic–organic copolymers as solid state ionic conductors with grafted anions
N. Kobayashi, S. Sato, K. Takazawa, K. Ikeda and R. Hirohashi	2309	A new polymer electrolyte for reversible photoresponsive ionic conduction
Proton conductors	2313	
C. S. Harris and T. G. Rukavina	2315	Lithium ion conductors and proton conductors: effects of plasticizers and hydration
J. J. Fontanella, M. C. Wintersgill, R. S. Chen, Y. Wu and S. G. Greenbaum	2321	Charge transport and water molecular motion in variable molecular weight NAFION membranes: high pressure electrical conductivity and NMR
W. Wieczorek, Z. Florjanczyk and J. R. Stevens	2327	Proton conducting polymer gels based on a polyacrylamide matrix
Poster papers	2331	
D. R. MacFarlane, P. Meakin, A. Bishop, D. McNaughton, J. M. Rosalie and M. Forsyth	2333	FTIR study of ion-pairing effects in plasticized polymer electrolytes
M. Forsyth, P. M. Meakin and D. R. MacFarlane	2339	A ^{13}C NMR study of the role of plasticizers in the conduction mechanism of solid polymer electrolytes
M. Forsyth, D. R. MacFarlane, P. Meakin, M. E. Smith and T. J. Bastow	2343	An NMR investigation of ionic structure and mobility in plasticized solid polymer electrolytes
M. Forsyth, P. Meakin, D. R. MacFarlane and A. J. Hill	2349	Positron annihilation lifetime spectroscopy as a probe of free volume in plasticized solid polymer electrolytes
H. S. Lee, X. Q. Yang, J. McBreen, Y. Okamoto and L. S. Choi	2353	A new family of anion receptors and their effect on ion pair dissociation and conductivity of lithium salts in non-aqueous solutions
J. P. Donoso, M. G. Cavalcante, T. J. Bonagamba, O. R. Nascimento and H. Panepucci	2357	Magnetic resonance study of water absorption in some peo-lithium salt polymer electrolytes

J. P. Donoso, T. J. Bonagamba, P. L. Frare, N. C. Mello, C. J. Magon, H. Panepucci	2361	Nuclear magnetic relaxation study of poly(propylene oxide)complexed with lithium salt
K. Ito and H. Ohno	2365	Salt exchange reaction *via* competitive solvation by poly(ethylene oxide) oligomers
A. Ferry, P. Jacobsson and L. M. Torell	2369	The molar conductivity behavior in polymer electrolytes at low salt concentrations; a Raman study of poly(propylene glycol) complexed with $LiCF_3SO_3$
C. Liebenow, A. Reiche and P. Lobitz	2375	Conductivity of the system $MgI_2 \cdot 2Et_2O$-poly(ethylene oxide)
E. Cazzanelli, G. Mariotto, G. B. Appetecchi, F. Croce and B. Scrosati	2379	Study of ion–molecule interaction in poly(methylmethacrylate) based gel electrolytes by Raman spectroscopy
M. M. S. Puga, L. D. Carlos, T. M. A. Abrantes and L. Alcacer	2383	Thermal stability and morphology of polymer electrolytes based on europium bromide
C. J. R. Silva and M. J. Smith	2389	Preparative effects on poly(ethylene oxide) based polymer electrolytes of lanthanide salts
A. Brodin, B. Mattsson, A. Torell and L. M. Torell	2393	Spin coated polymer films as hosts for Er^{3+} with blue and green upconversion radiation
J. Fan and C. A. Angell	2397	The preparation, conductivity, viscosity and mechanical properties of polymer electrolytes and new hybrid ionic rubber electrolytes
K. Xu and C. A. Angell	2401	Synthesis and characterization of lithium sulfonates as components of molten salt electrolytes
A. M. Christie, A. Lisowska-Oleksiak and C. A. Vincent	2405	The lithium/polymer electrolyte interface
H. Dérand, B. Wesslén and B.-E. Mellander	2413	Anionic graft copolymers containing poly(ethylene oxide)
W. Wieczorek, K. Such, Z. Florjanczyk and J. R. Stevens	2417	Polyacrylamide based composite polymeric electrolytes
R. Tanaka, H. Yamamoto, S. Kawamura and T. Iwase	2421	Proton conducting behavior of poly(ethylenimine)-H_3PO_4 systems
J. Shi, M. Malservisi and B. Marsan	2425	Studies of electrochemical and mass transport properties of a thiolate/disulfide redox couple in polymer electrolytes
L. G. Scanlon, Jr., W. Krawiec, A. T. Yeates and D. S. Dudis	2431	*Ab initio* molecular orbital calculations on cyclic ethers: correlation with interfacial stability and cycling life of non-aqueous electrolytes
D. Benrabah, R. Arnaud and J.-Y. Sanchez	2437	Comparative *ab initio* calculations on several salts
J. P. Gong and Y. Osada	2445	Modelling and simulation of electrostatic potential distribution in polyelectrolyte gels
J. F. Fauvarque, S. Guinot, N. Bouzir, E. Salmon and J. F. Penneau	2449	Alkaline poly(ethylene oxide) solid polymer electrolytes. Application to nickel secondary batteries
	2455	Future Special Issues
	2457	Papers in Press
	2459	Calendar
	2463	Books Received
	I	Guide to Authors

NUMBER 15

	i	ISE pages
A. KOLICS and G. HORÁNYI	2465	Some considerations about the applicability of the *in situ* radiotracer "foil" method for the study of accumulation processes on compact stainless steel electrodes—II. Measurement of induced X-radiation
XUDONG WEI and B. SPEISER	2477	Electrochemistry of triazenes—Part 4. Reaction of diazonium ions generated electrochemically from 1-aryl-3,3-dimethyltriazenes in acetonitrile
AN. M. KUZNETSOV	2483	*Ab initio* quantum-chemical studies of halogen atoms and halogenide ions chemisorbed on a Cu(111) surface
J. BARTHELMES and W. PLIETH	2487	SERS investigations on the adsorption of pyridine carboxylic acids on silver—influence of pH and supporting electrolyte
B. A. LÓPEZ DE MISHIMA, H. T. MISHIMA and G. CASTRO	2491	Surface studies of Pt–Ru electrodeposits on gold
V. B. NECHITAYILO, V. I. STYOPKIN, Z. A. TKACHENKO, YU. G. GOLTSOV, V. P. SHERSTYUK and V. V. ZHILINSKAYA	2501	Structure and electrochromic properties of ferric aquapentacyanoferrate—a new analogue of Prussian blue
C. BELMONT and H. H. GIRAULT	2505	Coplanar interdigitated band electrodes for electrosynthesis—Part 3: epoxidation of propylene
G. S. POPKIROV and R. N. SCHINDLER	2511	Effect of sample nonlinearity on the performance of time domain electrochemical impedance spectroscopy
G. BELLANGER and J. J. RAMEAU	2519	Corrosion of titanium nitride deposits on AISI 630 stainless steel used in radioactive water with and without chloride at pH 11
E. NGAMENI, A. NASSI, J. NGOUNE, M. MEGNAMISI BELOMBE and R. ROUX	2533	Electrochemical and electronic spectroscopic behaviour of trans-bis(ethanedial dioximato(1-),N,N′) diiodocobaltate(III), $[Co(GH)_2I_2]^-$ in connection with the cations H^+, NH_4^+, Et_4N^+, Hqn^+ (quinoleinium)
S. NAKAYAMA and Y. SADAOKA	2541	Morphology and ionic conductivity of potassium–samarium–silicates K_2O–Sm_2O_3–$nSiO_2$ (n = 1–14)
C. G. KONTOYANNIS	2547	Pyrolytic boron nitride coated graphite as a container of reference electrodes for molten fluorides
Short Communication L. B. KRIKSUNOV	2553	The temperature dependence of the Tafel slope for parallel electrochemical reactions
	2557	Corrigendum
	2559	Future Special Issues
	2561	Papers in Press
	2563	Electrochemical Calendar
	2567	Books received

NUMBER 16

	i	ISE pages
F. PORCHET and P. JAVET	2569	Mass transfer phenomena at Nafion coated electrodes: limits of the membrane model

YI-FU YANG, YUN-HONG ZHOU and CHUAN-SIN CHA	2579	Electrochemical reduction of oxygen on small palladium particles supported on carbon in alkaline solution
M. J. ESPLANDIU, L. B. AVALLE and V. A. MACAGNO	2587	Characterization of hafnium oxide films modified by Pt doping
M. PEYKOVA, E. MICHAILOVA, D. STOYCHEV and A. MILCHEV	2595	Galvanostatic studies of the nucleation and growth kinetics of copper in the presence of surfactants
K. KRATOCHVILOVÁ, I. HOSKOVCOVÁ, J. JIRKOVSKÝ, J. KLÍMA and J. LUDVÍK	2603	A spectroelectrochemical study of chemisorption, anodic polymerization and degradation of salicylic acid on conductor and TiO_2 surfaces
C. D. EVANS, I. NICIC and J. Q. CHAMBERS	2611	An electrochemical quartz crystal microbalance study of the deposition of mercury on graphite films
Y. HORI, O. KOGA, H. YAMAZAKI and T. MATSUO	2617	Infrared spectroscopy of adsorbed CO and intermediate species in electrochemical reduction of CO_2 to hydrocarbons on a Cu electrode
F. M. AL-KHARAFI and W. A. BADAWY	2623	Phosphoric acid passivated niobium and tantalum EIS-comparative study
BAILIN ZHANG and ERKANG WANG	2627	Effects of anodic oxidation on the surface structure of highly oriented pyrolytic graphite revealed by *in situ* electrochemical scanning tunnelling microscopy in H_2SO_4 solution
G. LALANDE, R. CÔTE, G. TAMIZHMANI, D. GUAY, J. P. DODELET, L. DIGNARD-BAILEY, L. T. WENG and P. BERTRAND	2635	Physical, chemical and electrochemical characterization of heat-treated tetracarboxylic cobalt phthalocyanine adsorbed on carbon black as electrocatalyst for oxygen reduction in polymer electrolyte fuel cells
G. PATERMARAKIS and H. S. KARAYANNIS	2647	The mechanism of growth of porous anodic Al_2O_3 films on aluminium at high film thicknesses
A. V. BENEDETTI, P. T. A. SUMODJO, K. NOBE, P. L. CABOT and W. G. PROUD	2657	Electrochemical studies of copper, copper-aluminium and copper-aluminium-silver alloys: impedance results in 0.5 M NaCl
A. RESTOVIC, G. POILLERAT, P. CHARTIER and J. L. GAUTIER	2669	Real electrode surface area by Zn^{2+} adsorption and electrocatalytical reactivity for the oxygen reduction reaction. Comparison of the electrocatalytical reactivity of pure and composite spinel oxide $Cu_{1+x}Mn_{2-x}O_4 (0 < x < 0.4)$ electrodes
G. MÉSZÁROS and L. MÉSZÁROS	2675	The effect of potential or current drift on the accuracy of low-frequency *ac* measurements in electrochemistry
Short Communications		
S. ARDIZZONE, G. SPINOLO and S. TRASATTI	2683	The point of zero charge of Co_3O_4 prepared by thermal decomposition of basic cobalt carbonate
R. DALBECK and W. VIELSTICH	2687	*Ex situ* analysis of sulfate adsorption on platinum via thermal desorption spectroscopy in ultra high vacuum
Book Reviews		
J. WENDT	2689	*Metalle—geschmolzene saltze, metals—molten salts.* Edited by H. H. EMONS, M. CHRENKOVA and V. DANEK
A. HAMNETT	2690	*Electrode kinetics for chemists, chemical engineers and material scientists.* Edited by E. GILEADI
	2691	Future Special Issues
	2693	Papers in Press

2695 Electrochemical Calendar

2699 Books received

NUMBER 17

i ISE pages

I. FONSECA, M. I. S. LOPES, J. L. SANTOS and L. PROENÇA — 2701 Electro-oxidation of D-sorbitol on platinum in perchloric medium: a voltammetric study

K. OGURA, M. KOKURA, J. YANO and H. SHIIGI — 2707 Spectroscopic and scanning tunneling microscopic characterization of virgin and recast films of electrochemically prepared poly(o-phenylenediamine)

S. H. SI, Y. J. XU, L. H. NIE and S. Z. YAO — 2715 Electrochemical quartz crystal microbalance study on electropolymerization of m-phenylenediamine: effects of aniline and polyaniline

M. JAKIČ, M. KOVAČ, M. GABERŠČEK and S. PEJOVNIK — 2723 Influence of carbon black type on anode and cathode electrical properties in LI/$SOCl_2$ batteries

Y. CASTRILLEJO, M. A. GARCÍA, E. BARRADO, P. PASQUIER and G. PICARD — 2731 Chemical and electrochemical behaviour of indium ions in the $ZnCl_2$–2NaCl melt at 450°C

C. COUTANCEAU, A. EL HOURCH, P. CROUIGNEAU, J. M. LEGER and C. LAMY — 2739 Conducting polymer electrodes modified by metal tetrasulfonated phthalocyanines: preparation and electrocatalytic behaviour towards dioxygen reduction in acid medium

J. V. MARTIN, M. TURMINE, P. LETELLIER and P. HEMERY — 2749 Study of β-cyclodextrin/dodecyltrimethylammonium bromide complex into water-isopropanol mixtures

O. BOHNKE, B. VUILLEMIN, C. GABRIELLI, M. KEDDAM, H. PERROT, H. TAKENOUTI and R. TORRESI — 2755 An electrochemical quartz crystal microbalance study of lithium insertion into thin films of tungsten trioxide. I. Modeling of the ionic insertion mechanism

O. BOHNKE, B. VUILLEMIN, C. GABRIELLI, M. KEDDAM and H. PERROT — 2765 An electrochemical quartz crystal microbalance study of lithium insertion into thin films of tungsten trioxide. II. Experimental results and comparison with model calculations

J. Y. BECKER, M.-Q. SHEN and R. WEST — 2775 Electrochemical oxidation of deca-*n*-propylcyclo-pentasilane $[(n\text{-Pr})_2Si]_5$

F. BARBA and B. BATANERO — 2779 Selective cathodic reduction of 3,7-diaryl-2H-imidazo[2,1-b][1,3,4]oxadiazines

XIAODAN XI and SHAOJUN DONG — 2785 Preparation of modified electrode with molybdophosphate anion and its electrocatalysis for bromate reduction

S. S. EL ATRASH and R. D. O'NEILL — 2791 Characterisation *in vitro* of a naphthoquinone-mediated glucose oxidase-modified carbon paste electrode designed for neurochemical analysis *in vivo*

Y. KATO, Y. SHIMIZU, L. YIJING, K. UNOURA, H. UTSUMI and T. OGATA — 2799 Reversible half-wave potentials of reduction processes on nitroxide radicals

A. B. VELICHENKO, D. V. GIRENKO and F. I. DANILOV — 2803 Electrodeposition of lead dioxide at an Au electrode

I. TABAKOVIĆ — 2809 Anodic oxidation of enaminones

G. BARRAL, F. NJANJO-EYOKE and S. MAXIMOVITCH — 2815 Characterisation of the passive layer and of hydroxide deposits of nickel by impedance spectroscopy

2829 Future Special Issues

2831 Papers in Press

2833 Electrochemical Calendar

2837 Books received

NUMBER 18

i ISE pages

V. MARAČEK and Z. SAMEC — 2839 Editorial

P. VANÝSEK — 2841 Charge transfer processes on liquid/liquid interfaces: the first century

A. G. VOLKOV, M. I. GUGESHASHVILI and D. W. DEAMER — 2849 Energy conversion at liquid/liquid interfaces: artificial photosynthetic systems

T. KAKIUCHI, Y. TERANISHI and K. NIKI — 2869 Adsorption of sorbitan fatty acid esters and a sucrose monoalkanoate at the nitrobenzene–water interface and its effect on the rate of ion transfer across the interface

A. VINCZE, G. HORVAI and F. A. M. LEERMAKERS — 2875 The effect of amphiphilic salts on the interface of two immiscible liquids

J. C. CONBOY and G. L. RICHMOND — 2881 Total internal reflection second harmonic generation from the interface between two immiscible electrolyte solutions

T. WANDLOWSKI, K. HOLUB, V. MAREČEK and Z. SAMEC — 2887 The double layer at the interface between two immiscible electrolyte solutions—IV. Solvent effect

C. BRUCKNER-LEA, R. J. KIMMEL, J. JANATA, J. F. T. CONROY and K. CALDWELL — 2897 Electrochemical studies of octadecanethiol and octanethiol films on variable surface area mercury sessile drops

V. MAREČEK, A. LHOTSKÝ and S. RAČINSKÝ — 2905 Fluctuation analysis and Faradaic impedance at micro liquid/liquid interface—I

V. MAREČEK, A. LHOTSKÝ and S. RAČINSKÝ — 2909 Fluctuation analysis and Faradaic impedance at micro liquid/liquid interface—II

K. ARAI, S. FUKUYAMA, F. KUSU and K. TAKAMURA — 2913 Role of a surfactant in the electrical potential oscillation across a liquid membrane

M. SATO and R. AOGAKI — 2921 Chaos in parametric resonance flow at water–mercury interface

J. F. T. CONROY, K CALDWELL, C. BRUCKNER-LEA and J. JANATA — 2927 An examination of surface waving on mercury film electrodes using scanning tunneling microscopy

H. KATANO, T. OSAKAI, S. HIMENO and A. SAITO — 2935 A kinetic study of the formation of 12-molybdosilicate and 12-molybdogermanate in aqueous solutions by ion transfer voltammetry with the nitrobenzene–water interface

V. J. CUNNANE, D. J. SCHIFFRIN and D. E. WILLIAMS — 2943 Micro-cavity electrode: a new type of liquid–liquid microelectrode

H. DOE, M. HOSHIYAMA and L. JIAN — 2947 Cooperative ion-transfer of copper(II)–1,10-phenanthroline-trifluoroacetylacetone complex across a water/1,2-dichloroethane interface

S. A. DASSIE, L. M. YUDI and A. M. BARUZZI — 2953 Comparative analysis of the transfer of alkaline and alkaline-earth cations across the water/1,2-dichloroethane interface

P. D. BEATTIE, A. DELAY and H. H. GIRAULT — 2961 Investigation of the kinetics of ion and assisted ion transfer by the technique of *ac* impedance of the micro-ities

Z. SAMEC, T. KAKIUCHI and M. SENDA	2971	Double-layer effects on the Cs^+ ion transfer kinetics at the water/nitrobenzene interface
K. KONTTURI, J. A. MANZANARES and L. MURTOMÄKI	2979	Effect of concentration polarization on the current–voltage characteristics of ion transfer across ities
A. V. INDENBOM	2985	Interpretation of ion transfer reactions across the interface between two immiscible electrolyte solutions by the model of "elastic" inner layer
M. SENDA	2993	Theory of the double-layer effect on the rate of charge transfer across an electrolyte/electrolyte interface
T. KAKIUCHI	2999	Free energy coupling of electron transfer and ion transfer in two-immiscible fluid systems
V. J. CUNNANE, G. GEBELEWICZ and D. J. SCHIFFRINS	3005	Electron and ion transfer potentials of ferrocene and derivatives at a liquid–liquid interface
K. VYTŘAS, I. VARMUŽOVÁ and J. KALOUS	3015	A potentiometric study and determination of compounds containing poly(oxypropylene) chains
P. BÜHLMANN, S. YAJIMA, K. TOHDA and Y. UMEZAWA	3021	*Emf* response of neutral-carrier based ion-sensitive field effect transistors with membranes free of ionic sites
	3029	Future Special Issues
	3031	Papers in Press
	3033	Electrochemical Calendar
	3037	Books received

AUTHOR INDEX

Abraham, K. M. 2289
Abrantes, T. M. A. 2383
Adachi, T. 837
Adžić, R. R. 83
Alamgir, M. 2289
Alcacer, L. 2383
Al-Kharafi, F. M. 1811, 2623
Alloin, F. 1907, 2259, 2269
Allongue, P. 1353
Alonso-Romanowski, S. 1561
Alonso-Vante, N. 567
Ammann, E. 1411
Anani, A. 2211
Andersson, M. R. 2233
Andreasen, G. 1305
Andrieu, X. 2295
Angell, C. A. 2049, 2239, 2397, 2401
Angelov, V. 1005
Aogaki, R. 2921
Appetecchi, G. B. 991, 2379
Arai, K. 2913
Arbizzani, C. 1871, 2223
Arce, E. M. 263
Ardel, G. 2197
Ardizzone, S. 2683
Arikawa, T. 1889
Armand, M. 1907, 2259
Armstrong, R. D. 1135
Arnaud, R. 2437
Asaki, T. 889
Avalle, L. B. 2587
Avena, M. J. 907
Azens, A. 2233
Aziz, M. 2119

Bach, S. 785
Badawy, W. A. 1811, 2623
Bagger, C. 1971
Baifeng Liu 1025
Bailin Zhang 2627
Balakrishnan, K. 1755
Baltruschat, H. 99
Barba, F. 2779
Barbero, C. 1037
Bark, F. H. 247, 599, 1983
Barker, J. 673, 949, 1603
Barrado, E. 2731
Barral, G. 709, 2815
Barsoukov, E. 1857
Barthelmes, J. 2487
Bartl, A. 1421
Baruzzi, A. M. 2953
Bastow, T. J. 2343
Basura, V. 321
Batanero, B. 2779
Beattie, P. D. 2961
Beck, F. 1955
Becker, J. Y. 2775
Bedioui, F. 253
Behm, R. J. 1259
Bellanger, G. 2519
Belmont, C. 2505
Benedetti, A. V. 2657
Benrabah, D. 2259, 2437
Bergeron, M. 1013
Berghoute, Y. 403
Bergman, R. 2049
Berrettoni, M. 681
Bertrand, P. 2635
Besner, S. 2123
Birss, V. I. 1551
Bishop, A. 2333
Bode, M. 785
Boden, N. 2071
Bohnen, K.-P. 129
Böhni, H. 775, 1361
Bohnke, O. 2755, 2765
Bojinov, M. 591, 873
Bonagamba, T. J. 2361, 2357
Booth, C. 2233
Borgwarth, K. 1455
Borjas, R. E. 473
Bouzir, N. 2449
Bovard, F. S. 201
Bratoeva, M. 1439
Breiter, M. W. 1545
Breuer, N. 1401
Brisard, G. M. 859
Brodin, A. 2049, 2393
Brown, D. 2063
Bruce, P. G. 2077, 2159
Bruckner-Lea, C. 2897, 2927
Büchi, F. N. 345
Budevski, E. 1495
Buess-Herman, C. 61
Bühlmann, P. 3021

Burleigh, T. D. 201
Burstein, G. T. 1881

Cabot, P. L. 447, 2657
Cachet, C. 785
Cai, C. X. 1109
Cairns, E. J. 859
Caldwell, K. 2897, 2927
Carlos, L. D. 2143, 2383
Carnal, D. 1223
Carrasquillo, A. Jr. 1203
Carre, B. 253
Carter, M. T. 1331
Castrillejo, Y. 2731
Castro, G. 2491
Catellani, M. 1871
Catlow, C. R. A. 2057
Cattarin, S. 1041
Cavalcante, M. G. 2357
Cazzanelli, E. 2379
Cedzynska, K. 971
Celis, J.-P. 1439
Cervilla, A. 1121
Chambers, J. Q. 2611
Chartier, P. 2669
Chemla, M. 719
Chen, H. Y. 1109
Chen, R. S. 309, 2321
Cheung, C. W. 689
Chia-Chien Lee 965
Chintapalli, S. 2093
Chisholm, C. U. 2013
Choe, H. S. 2289
Choi, L. S. 2353
Chowdari, B. V. R. 2109
Christie, A. M. 2405
Christie, L. 2159
Chuan-Sin Cha 2579
Chun-hsien Chen 17
Ciureanu, M. 1921
Claes, P. 1933
Clausen, C. 1971
Codaro, E. N. 1183
Coeuret, F. 585
Conboy, J. C. 2881
Conroy, J. F. T. 2897, 2927
Conway, B. E. 1501
Córdoba de Torresi, S. I. 1101
Cordova, R. 267
Côte, R. 2635
Coutanceau, C. 2739
Cox, A. P. 1537
Croce, F. 991, 2137, 2379
Crouigneau, P. 2739
Cruickshank, J. 2071
Cui, C. Q. 1653
Cunnane, V. J. 2943, 3005
Curtin, L. S. 1331

Dalbeck, R. 2687
Dalchielle, E. A. 267
Danilov, F. I. 2803
Darowicki, K. 439, 767
das Chagas, L. V. 1735
Dassie, S. A. 2953
Davey, J. 297
Deamer, D. W. 2849
Debiemme-Chouvy, C. 189
De Jonghe, L. C. 2205
Delabouglise, D. 1907
Delay, A. 2961
de Leeuw, S. W. 2087
De Pauli, C. P. 907
Dérand, H. 2413
Devilliers, D. 719
Devynck, J. 253
Dietz, N. 1041
Dignard-Bailey, L. 2635
Dimitrov, N. 1495
Dodelet, J. P. 2635
Doe, H. 2947
Doeff, M. M. 2205
Domenech, A. 1121
Dong, S. 823
Dong-Won Kim 1697
Donini, J. C. 487
Donoso, J. P. 2361, 2357
Doyle, M. 2191
Dudis, D. S. 2431
Duić, L. 1681
Dunsch, L. 1421, 1427
Dygas, J. R. 1545

Ebling, D. 1455
Eiswirth, M. 69
El Atrash, S. S. 2791
El Hourch, A. 2739
Encinas, P. 1623
Engberg, D. 2049
Enomoto, H. 1663
Eriksson, R. 725
Erkang Wang 733, 2627
Erné, B. H. 689
Ertl, G. 69
Eschbach, F. 2211
Eshkenazy, V. 2197
Espinosa, A. M. 1623

Esplandiu, M. J. 809, 2587
Etcheberry, A. 189
Evans, C. D. 2611

Fabrizio, M. 1899
Fahidy, T. Z. 1789
Fan, J. 2397
Fasoulopoulos, P. 2131
Fauteux, D. 2185
Fauvarque, J. F. 2295, 2449
Fedkiw, P. S. 291
Ferry, A. 2369
Fiaud, C. 1513
Fiedler, D. A. 1595
Fillieres, R. 189
Fisk, Z. 209
Fleischer, G. 2153
Florjanczyk, Z. 2251, 2327, 2417
Fonseca, I. 2701
Fontanella, J. J. 309, 2321
Fontes, E. 1641
Fontes, M. 1641
Forsyth, M. 2087, 2131, 2301, 2333, 2339, 2343, 2349
Frangini, S. 637
Frare, P. L. 2361
Frech, R. 2093, 2147
Frelink, T. 545, 1537
Fringant, C. 513
Fritz, H. P. 1595
Froeck, Ch. 1421
Froment, M. 1293
Fujita, K. 879
Fukumoto, Y. 845
Fukuyama, S. 2913
Furilla, J. L. 473

Gabe, D. R. 1609
Gaberšček, M. 2723
Gabrielli, C. 2755, 2765
Galland, J. 867
Gamboa-Aldeco, M. 17
Gandini, A. 2281
García, M. A. 2731
García-Jareño, J. J. 1113, 1121
Garrido, J. A. 447
Gassa, L. M. 1561
Gasteiger, H. A. 91
Gautier, J. L. 2669
Gebelewicz, G. 3005
Gerischer, H. 1277, 1353
Gervasi, C. A. 1469
Gervits, L. L. 1157
Gewirth, A. A. 17
Giaccai, J. 2289
Girault, H. H. 2505, 2961
Girenko, D. V. 2803
Girginov, A. 591, 873
Glibert, J. 1933
Goeminne, G. 479
Goetting, L. B. 143
Golodnitsky, D. 2197
Goltsov, Yu. G. 2501
Gomez, H. 267
Gong, J. P. 2445
Gonzalez, G. 1773
Goodenough, J. B. 303
Goossens, A. 1339
Gordon, J. G. 3
Gottesfeld, S. 283, 297, 355
Goux, A. 2295
Grabner, E. W. 1735
Graf, E. 1939
Granqvist, C. G. 2233
Grätzel, M. 643
Greenbaum, S. 2031
Greenbaum, S. G. 309, 2137, 2321
Gross, M. 1939
Groult, H. 719
Gu, Z. H. 1789
Guang Wang 1025
Guay, D. 2635
Guerriero, P. 1041, 1899
Gugeshashvili, M. I. 2849
Guinot, S. 2449
Gupta, B. 345
Gustafsson-Carlberg, J. C. 2233
Gvozdić, V. 1777

Haas, O. 345, 1411
Haiying Liu 1845
Halbritter, J. 1385
Hall, C. A. 1135
Hamaide, T. 2295
Hamano, H. 2017
Hamar-Thibault, S. 1827
Hamelin, A. 61
Hammouche, A. 1741
Hamnett, A. 2690
Harris, C. S. 2315
Hartenstein, H. 1669
Hassel, MA. W. 433
Haug, R. J. 1283
Haupt, S. G. 1319
Hayashi, K. 537
Hazard, R. 1669
Heintz, M. 1711
Heinze, J. 1455

Heinzel, A. 315
Hemery, P. 2749
Herman, E. 1933
Hermas, A. A. 837
Herrero, C. R. 1907
Hertwig, K. 387
Hey, J. 2131
Hill, A. J. 2349
Himeno, S. 2935
Hirohashi, R. 2309
Hlavatý, J. 625
Ho, K. M. 129
Holub, K. 2887
Holze, R. 213
Hölzle, M. H. 1237
Hong Wang 1707
Horányi, G. 615, 2465
Hori, Y. 883, 2617
Horio, H. 233
Horvai, G. 2875
Hoshi, N. 883
Hoshiyama, M. 2947
Hoskovcová, I. 2603
Howard, J. 2211
Hu, C.-C. 495
Huang, B. M. 143
Huang, W. 2147

Ibanez, J. G. 263
Ibrahim, M. S. 1913
Ichino, T. 2265
Igarashi, H. 329
Ihara, M. 2217
Ikeda, K. 2309
Inaba, H. 227
Indenbom, A. V. 2985
Inganäs, O. 2233
Inoue, H. 561, 977
In Tae Bae 29
Inzelt, G. 221
Ishihara, H. 2173
Ishikawa, M. 1663, 2217
Itaya, K. 1249
Ito, K. 2365
Ivkov, V. 1617
Iwaku, M. 227
Iwakura, C. 561, 845, 977, 1663
Iwase, T. 2421
Iwasita, T. 53

Jacobsen, T. 255
Jacobsson, P. 2369
Jakič, M. 2723
Janata, J. 2897, 2927
Javet, P. 2569
Jerome, M. 867
Jeske, M. 1435
Jian, L. 2947
Jianai Zhao 1319
Jian-Hua Xu 2087
Jian-Hui Ye 291
Jiaqi Deng 1845
Jingdong Zhang 733
Jinqing, K. 241
Jirkovský, J. 2603
Johansson, P. 2147
Johnson, M. C. 321
Johnston, R. F. 473
Jones, C. T. 1319
Joong-Do Kim 1171
Jouikov, V. 803, 1617
Ju, H. X. 1109
Jung, K. G. 1369
Jung-Ki Park 1697
Jun-Seob Song 1697
Jurbergs, D. C. 1319

Kakiuchi, T. 2869, 2971, 2999
Kalantary, M. R. 1609
Kalous, J. 3015
Kamegaya, Y. 889
Kamnev, A. A. 1005
Kan, K. 1785
Kanamura, K. 913
Kanazirski, I. 591, 873
Kaplin, D. A. 1149
Karayannis, H. S. 1079, 2647
Kashchiev, D. 1495
Katano, H. 2935
Kato, K. 233
Kato, Y. 2799
Kautek, W. 1461
Kavan, L. 643
Kawamura, S. 2421
Keddam, M. 2755, 2765
Kerrec, O. 719
Kertész, V. 221
Khalil, N. 1769
Kharkats, Y. I. 247
Khoumri, E. M. 189
Kieling, V. 1353
Kim, I. 561
Kim, J. 1863
Kimmel, R. J. 2897
Kitani, A. 849
Kleitz, M. 1741
Klíma, J. 2603
Kobayashi, H. 889

Kobayashi, N. 2309
Kobusch, C. 1395
Koga, O. 2617
Koinuma, M. 1345
Koksbang, R. 673, 1701
Kokura, M. 2707
Kolb, D. M. 1, 1237
Kolics, A. 1835, 2465
Komatsu, S. 745, 829
Komorowski, P. G. 487
Komorsky-Lovrić, Š. 1781
Kontoyannis, C. G. 2547
Kontturi, K. 2979
Koper, M. T. M. 1689
Kornyshev, A. A. 109
Kossmehl, G. 577
Kötz, R. 1411
Kouznetsov, D. 1513
Kovač, M. 2723
Kovač, S. 1681
Koyamada, T. 2173
Kramar, T. 43
Kratochvilová, K. 2603
Krawiec, W. 2431
Kriksunov, L. B. 2553
Krischer, K. 69
Kriz, C. B. 1063
Kriz, D. 1063
Krtil, P. 2005
Kruger, J. 897
Krysa, J. 1997
Kugita, T. 2017
Kukhar, V. P. 1157
Kulak, A. I. 1761
Kulesza, P. J. 681
Kumar, G. S. 285
Kungi, A. 745
Kunugi, A. 829, 1785
Kurek, P. 1545
Kushkhov, H. B. 1031
Kusu, F. 2913
Kuzmann, E. 2013
Kuznetsov, An. M. 2483

Lacmann, R. 1475
Lalande, G. 2635
Lamy, C. 2739
Lantelme, F. 403
Lascaud, S. 2123
Lascovich, J. 637
Latanision, R. M. 1723
Latham, R. J. 2119
Leach, J. S. L. 1769
Ledjeff, K. 315
Lee, E.-J. 1963
Lee, H. S. 2115, 2353
Lee, Jim Y. 1653
Leermakers, F. A. M. 2875
Leger, J. M. 2739
Legrand, L. 1711
Lei Ding 2205
Leiva, E. 37
Lemmon, J. P. 2245
Le Nest, J. F. 2281
Leng, S. A. 2071
Lerner, M. M. 2245
Le Roy, D. 189
Letellier, P. 2749
Lewerenz, H. J. 1041
Lhotský, A. 2905, 2909
Li, Z. P. 467
Liang Tse Yu 785
Liebenow, C. 2375
Lincot, D. 1293
Lindgren, J. 2147
Lindholm-Sethson, B. 1675
Linford, R. G. 2119
Ling, X. 1789
Lipkowski, J. 9, 133
Lisowska-Oleksiak, A. 2405
Lister, T. E. 143
Lobitz, P. 2153, 2375
Lohrengel, M. M. 433
Lonergan, M. C. 2041
Lopes, M. I. S. 2701
López de Mishima, B. A. 2491
Lorenz, W. J. 1219, 1385, 1469
Los, P. 2159
Lou, W. 667
Lovrić, M. 1781
Lu, Q. 2049, 2239
Lübke, M. 69
Ludvík, J. 2603

Macagno, V. A. 809, 2587
MacFarlane, D. R. 2131, 2301, 2333, 2339, 2343, 2349
Magnussen, O. M. 1259
Magon, C. J. 2361
Mahlendorf, F. 315
Maitani, S. 849
Makuta, I. D. 1761
Malaspina, F. 2211
Malik, M. A. 681
Malservisi, M. 2425
Malyshev, V. V. 1031
Mandić, Z. 1681
Mandler, D. 1093
Manduchi, C. 1899

Manoharan, R. 303
Manolatos, P. 867
Manzanares, J. A. 2979
Maraček, V. 2839
Marassi, R. 681
Marcus Peng 2205
Mareček, V. 2839, 2887, 2905, 2909
Marioli, J. M. 983
Mariotto, G. 2379
Marković, N. M. 91
Marsan, B. 2425
Martens, L. 387
Martin, J. V. 2749
Martin-Vosshage, D. 2109
Massé, N. 1013
Massucco, A. 2185
Mastragostino, M. 1871, 2223
Matlosz, M. 393
Matsuda, Y. 233, 2217
Matsui, H. 829
Matsui, N. 561
Matsui, T. 2165
Matsumoto, M. 2265
Matsuo, T. 2617
Matsuoka, M. 561, 845, 977, 1663
Mattoso, L. H. C. 1851
Mattsson, B. 2393
Maximovitch, S. 709, 2815
McBreen, J. 2115, 2353
McDevitt, J. T. 1319
McLarnon, F. 859
McLin, M. 2185
McNaughton, D. 2333
Meadows, V. 2211
Meakin, P. 2131, 2333, 2343, 2349
Meakin, P. M. 2339
Meas, Y. 263
Megnamisi Belombe, M. 2533
Meier, A. 1523
Meissner, D. 1523
Mellander, B.-E. 2413
Mello, N. C. 2361
Mello, S. V. 1851
Melroy, O. R. 3
Meneghello, L. 2223
Mengoli, G. 1899
Mesfar, K. 253
Messina, R. 513, 1711
Mészáros, G. 2675
Mészáros, L. 2675
Metikoš-Huković, M. 1777
Meyer, H. 629
Meyer, H. 1479, 1487
M'hamdi, R. 2295
Michailova, E. 2595
Micka, K. 2005
Mikulina, O. E. 1157
Milchev, A. 1475, 2595
Mills, G. E. 2057
Mingazzini, C. 1871
Mingjun Liu 197
Miralles-Roch, F. 1877
Mirwald, S. 133
Mishima, H. T. 2491
Mitamura, T. 889
Miyamato, M. 845
Mizumura, T. 883
Moffat, T. P. 1723
Mogensen, M. 1971
Möller, F. 1259
Momota, K. 233
Moonsup Han 17
Moran, P. J. 897
Moreira, A. H. 447
Mori, S. 829
Morita, M. 233, 2217
Morozova, O. V. 817
Mosdale, R. 413
Mouats, C. 1669
Moussoutzanis, K. 699
Moutet, J.-C. 1827
Mraz, R. 1997
Mrozek, P. 17
Müller, U. 99, 1223
Münder, H. 1435
Munemura, H. 849
Murakami, Y. 1889
Murata, K. 2177
Murray, R. W. 1331
Murtomäki, L. 2979

Nagasubramanian, G. 2277
Nagy, G. 1417
Nakamatsu, S. 977
Nakase, K. 227
Nakayama, S. 2541
Nart, F. C. 53
Nascimento, O. R. 2357
Nassi, A. 2533
Navarro, J. J. 1113
Nechitayilo, V. B. 2501
Neckel, A. 43
Neudeck, A. 1427
Newman, J. 2191
Neyertz, S. 2063
Ngameni, E. 2533
Ngoune, J. 2533
Nichols, R. J. 1479, 1487
Nicic, I. 2611

Nie, L. H. 2715
Niki, K. 2869
Nishi, S. 2265
Nishina, T. 1927
Niu, J. 823
Njanjo-Eyoke, F. 709, 2815
Nobe, K. 2657
Novák, M. 1127
Novochatskii, I. A. 2013
Novosyolova, I. A. 1031
Nurhadi, A. 1939
Nyffenegger, R. 1411

Ocko, B. M. 83
Oden, P. I. 1223
Ogaki, K. 1249
Ogata, N. 2285
Ogata, T. 2799
Ogumi, Z. 1785
Ogura, K. 667, 837, 2707
Oguri, M. 889
Ohno, H. 2365
Ohtani, D. 2017
Okamoto, Y. 2115, 2353
Okano, M. 2017
Okumura, A. 745
Okuzaki, H. 2229
Olsen, I. I. 1701
O'Neill, R. D. 2791
Oriakhi, C. 2245
Oriani, R. A. 1171
Osada, Y. 2229, 2445
Osakai, T. 2935
Oseroff, S. 209
Østergård, M. J. L. 1971
Ouennoughi, Y. 1827
Ourari, A. 1827
Oyama, N. 227

Pagitsas, M. 755
Palibroda, E. 1051
Palmqvist, E. 1063
Panepucci, H. 2361, 2357
Paquette, C. 2123
Parthasarathy, S. 285
Partridge, A. C. 1199
Paseka, I. 1633
Pasquier, P. 2731
Pastor, E. 53
Pastukhov, Yu. G. 1191
Patermarakis, G. 699, 1079, 2647
Patrito, E. M. 809
Payne, V. A. 2087
Peck, S. R. 1331
Peinecke, V. 315
Pejovnik, S. 2723
Peled, E. 2197
Peng, W. 455
Penneau, J. F. 2449
Pentzien, S. 1461
Pereira-Ramos, J.-P. 785
Pérez, E. 447
Perfilyev, Y. D. 1005
Perrier, M. 2123
Perrot, H. 2755, 2765
Pettinger, B. 133
Peykova, M. 2595
Philipp, R. 1581
Picard, G. 2731
Pickup, P. G. 321
Plieth, W. 577, 2487
Podloucky, P. 43
Poillerat, G. 2669
Popall, M. 2305
Popkirov, G. S. 1857, 2511
Popov, A. 551, 1495
Porchet, F. 2569
Posadas, D. 1037
Posdorfer, J. 1587
Postnikova, M. 803
Pötzschke, R. T. 1469
Poznyak, S. K. 1761
Probst, M. 213
Proud, W. 447
Proud, W. G. 2657
Prud'homme, J. 2123
Przyluski, J. 2101
Pud, A. A. 1157
Puga, M. M. S. 2383
Pyun, J. 1171
Pyun, S. I. 1863, 1963

Qian-kun Zhuang 959
Qijin Chi 733
Qutubuddin, S. 1149

Račinský, S. 2905, 2909
Raja, M. 285
Rameau, J. J. 2519
Rammelt, U. 505
Ratner, M. A. 2041, 2087
Reetz, S. 1461
Reiche, A. 2153, 2375
Reinhard, G. 505
Repphun, G. 1385
Rerolle, C. 939
Rešetić, A. 1777
Restovic, A. 2669

Retter, U. 1581
Rettori, C. 209
Richardson, J. N. 1331
Richmond, G. L. 2881
Rodes, A. 53
Roginskaya, Yu. E. 817
Roig, A. F. 1113
Roos, J. R. 1439
Ropital, F. 1513
Rosalie, J. M. 2333
Ross Jr, P. N. 91
Rousar, I. 379
Roux, C. 953
Roux, R. 2533
Rowe, G. K. 1331
Rudnicki, J. D. 859
Ruf, R. R. 1723
Rukavina, T. G. 2315
Rung-Kuang Lo 1319
Rutt, J. S. 2265
Ryan, D. H. 1921

Sadaoka, Y. 2541
Saidi, E. S. 949
Saidi, M. Y. 949
Saito, A. 2935
Saito, K.-I. 537
Sajdl, B. 2005
Sakamoto, K. 829
Salmi, A. 403
Salmon, E. 2449
Salomon, M. 2137
Samec, Z. 2839, 2887, 2971
Sanchez, E. 2239
Sanchez, J.-Y. 953, 1907, 2259, 2269, 2437
Sanchez, R. D. 209
Sanchez, V. 1773
Sánchez-Batanero, P. 1623
Sandner, B. 2153
Santa-Ana, M. A. 1773
Santos, J. L. 2701
Santos Jr., J. R. 1851
Sasaki, K. 889
Sato, M. 2921
Sato, S. 2309
Sazou, D. 755
Scanlon, L. G. Jr. 2431
Scharfe, M. 61
Scherer, G. G. 345
Scherson, D. A. 29
Schiffrin, D. J. 2943, 3005
Schimpf, J. A. 1203
Schindler, R. N. 1587, 1857, 2511
Schlindwein, W. S. 2119
Schmickler, W. 37, 1315
Schmidt, E. 1223
Schmiemann, U. 99
Schmuki, P. 775
Schneider, J. 577
Schoenenberger, C. 2281
Scholl, H. 1113
Schoonman, J. 1339
Schrebler, R. 267
Schreyer, A. 1361
Schröer, D. 1479, 1487
Schultze, J. W. 1395
Schultze, J. W. 1369, 1395, 1435
Schumacher, R. 629
Scott, K. 423
Scrosati, B. 991, 2379
Seddon, B. J. 455
Senda, M. 2971, 2993
Seo, I. 227
Sereno, L. 1037
Sereno, L. E. 983
Shaojun Dong 197, 733, 1025, 1177, 2785
Shaolin, M. 241
Shapoval, G. S. 1157
Shapoval, V. I. 1031
Sharp, M. 1675
Shen, D. H. 2277
Shen, M.-Q. 2775
Shen-Jiang Xia 175, 181
Sherstyuk, V. P. 2501
Shi, J. 2185, 2425
Shifler, D. A. 897
Shiigi, H. 2707
Shijie Wu 9
Shimizu, Y. 2799
Shiotani, M. 849
Shiraishi, S. 913
Shriver, D. F. 2041, 2087
Si, S. H. 2715
Sicker, D. 1669
Siebert, E. 1741
Siegenthaler, H. 1223, 1411
Siekierski, M. 2101
Silber, J. J. 1037
Silva, C. J. R. 2389
Simonsson, D. 1641
Singh, I. B. 1755
Skou, E. 1701
Slane, S. 2137
Smith, A. T. 201
Smith, M. E. 2343
Smith, M. J. 2389
Sobkowski, J. 1717

Sokirko, A. V. 247, 1983
Solorza-Feria, O. 567
Soriaga, M. P. 1203
Souto, R. M. 1881
Speiser, B. 2477
Spinolo, G. 2683
Srinivasan, S. 335, 413
Staikov, G. 1385, 1469
Stallworth, P. E. 309, 2137
Steffen, B. 379
Stein, H.-J. 577
Steudel, E. 1587
Steurich, T. 2153
Stevens, J. R. 2251, 2327, 2417
Stickney, J. L. 143
Stimming, U. 1401
Stoychev, D. 2595
St-Pierre, J. 1013
Ström-Olsen, J. O. 1921
Styopkin, V. I. 2501
Such, K. 2417
Suda, S. 467
Sugier, A. 1513
Su-Il Pyun 999, 1171
Sultan, S. 1755
Sumodjo, P. T. A. 2657
Sun, J. 2131, 2301
Sun, Y. P. 423
Sundström, L.-G. 599
Surampudi, S. 2277
Surya Prakash, G. K. 2277
Suter, T. 1361
Sylla, S. 2259
Szücs, A. 1127
Szynkarczuk, J. 487

Tabaković, I. 2809
Takamura, K. 2913
Takasu, Y. 1889
Takazawa, K. 2309
Takehara, Z.-I. 913, 1785
Takenouti, H. 2755
Takeshita, Y. 2265
Takeyama, K. 2165
Tallec, A. 1669, 1877
Tamarit, R. 1121
Tamizhmani, G. 2635
Tamura, H. 913
Tanaka, M. 745, 977
Tanaka, R. 2421
Tang, H. 849
Tardivel, R. 1877
Tascón, M. L. 1623
Tender, L. M. 1331
Teranishi, Y. 2869
Terryn, H. 479
Thomas, J. O. 2063
Thomas, S. C. 1551
Tilquin, J.-Y. 1933
Ting Chen 1177
Tjärnhage, T. 1675
Tjerkstra, R. W. 689
Tkachenko, Z. A. 2501
Tobishima, S.-I. 537
Tohda, K. 3021
Tölgyesi, M. 1127
Toney, M. F. 3
Torell, A. 2393
Torell, L. M. 2049, 2369, 2393
Tormin, U. 1955
Torresi, R. 2755
Torresi, R. M. 209
Tranchant, A. 513, 1711
Trasatti, S. 2683
Triaca, W. E. 1305
Tributsch, H. 567
Tse-Chuan Chou 965
Tsutsumi, H. 879
Tucceri, R. I. 1037
Turmine, M. 2749
Turyan, I. 1093

Uchida, I. 1927
Ugarte, R. 267
Uhlendorf, I. 1523
Umezawa, Y. 3021
Uno, H. 829
Unoura, K. 2799
Uosaki, K. 1345
Utsumi, H. 2799

Valerio, J. 297
Valerio, J. A. 355
Vallée, A. 2123
van Buren, M. 2185
Vander Poorten, H. 1819
Vanmaekelbergh, D. 689
van Veen, J. A. R. 545, 1537
van Venrooij, T. G. J. 1689
Vanýsek, P. 2841
Varela, F. E. 1183
Varga, K. 1835
Varmužová, I. 3015
Vázquez, M. D. 1623
Vázquez, M. V. 907
Velev, O. A. 335
Velichenko, A. B. 2803

Vereecken, J. 479
Vértes, A. 2013
Vértes, Cs. 2013
Vicedo, T. 2295
Vicente, F. 1113, 1121
Videira, A. L. L. 2143
Vielstich, W. 2687
Vigneron, J. 189
Vilar, E. O. 585
Vilche, J. R. 1183, 1561
Vilfan, I. 109
Villegas, I. 91, 1267
Vincent, C. A. 2035, 2405
Vincze, A. 2875
Vinzelberg, S. 1385, 1469
Visco, S. J. 2205
Visscher, W. 545, 1537
Visy, Cs. 1127
Vitanov, T. 1495
Vitkova, S. 2013
Vogel, R. 1401
Vogtenhuber, D. 43
Volkov, A. G. 2849
Voss, H. H. 321
Vuillemin, B. 2755, 2765
Vytřas, K. 3015

Wakizoe, M. 335
Wandlowski, T. 2887
Wang, C. F. 455
Wang, J. 83
Wang, Q. 2277
Ward, I. M. 2071
Wasberg, M. 615
Waszczuk, P. 1717
Watanabe, M. 329, 2285
Weaver, M. J. 91, 1267
Weber, M. 53
Wei-Fang Zhou 175, 181
Wei Wanzhi 1057
Welzel, H.-P. 577
Wen, T.-C. 495
Wendt, H. 377
Wendt, J. 2689
Weng, L. T. 2635
Wesslén, B. 2413
West, K. 255
West, R. 2775
Wiart, R. 939
Wieckowski, A. 17
Wieczorek, W. 2101, 2251, 2327, 2417
Wilcox, G. D. 1609
Wilkinson, D. P. 321
Williams, D. E. 2943
Wilson, M. S. 355
Wintersgill, M. C. 309, 2321
Wolf, W. 69
Wouters, G. 1439
Wu, J. 2245
Wu, Y. 2321
Wünsche, M. 629

Xiaodan Xi 1025, 2785
Xiaoping Gao 1267
Xiao-xia Gao 959
Xie Qingji 1057
Xin-Min Du 2305
Xu, K. 2401
Xu, Y. J. 2715
Xudong Jiang 91
Xudong Wei 2477
Xuekun Xing 29

Yahikozawa, K. 1889
Yajima, S. 3021
Yamada, K. 1927
Yamada, S. 2285
Yamaki, J.-I. 537
Yamamoto, H. 2421
Yamazaki, H. 2617
Yang, Q. M. 1921
Yang, X. Q. 2115, 2353
Yano, J. 2707
Yanping Ma 2205
Yao, S. Z. 2715
Yao Shouzhuo 1057
Yasukawa, H. 227
Yasuzawa, M. 1785
Yeates, A. T. 2431
Yi-Fu Yang 2579
Yijing, L. 2799
Yosioka, K. 329
Young-Gi Yoon 999
Yuanwu Xie 1177
Yudi, L. M. 2953
Yung-Eun Sung 17
Yun-Hong Zhou 2579

Zamponi, S. 681
Zannoni, G. 1899
Zawodzinski, T. A. 297
Zelenay, P. 1717
Zhang, A. J. 1551
Zhang, X. 455
Zhang, X.-G. 1889
Zhichao Shi 9
Zhilinskaya, V. V. 2501
Zhou, D. B. 1819
Zubimendi, J. L. 1305
Zwing, V. 1237

• BACK ISSUES OF •
THIS
JOURNAL

Back issues of this and all other Elsevier Science journals are available in hard copy. New subscribers to a journal may purchase back issues of that publication in hard copy edition at 25% discount off the standard price. Elsevier Science maintains stocks of back issues and orders may be placed with confidence at your nearest Elsevier Science office. Should any issue of a volume be temporarily out of stock at the time of ordering, a high quality photoduplicated copy will be supplied at no extra charge to complete your order.

SAVE UP TO 25% BY PURCHASING COMPLETE SETS
Customers wishing to purchase complete sets can do so at a saving of 25% off the individual volume price.

MICROFORM EDITIONS
Back issues in microform of Elsevier Science research journals are also available. For further information please apply to your nearest Elsevier Science office.

BACK ISSUES PRICE LIST
Full details of the rates of back issues of all Elsevier Science journals can be found in our Back Issues Price List. Please contact your nearest Elsevier Science office for a copy.

Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK
Telephone: +44 0865 843699 • Fax: +44 0865 843911
Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA
Telephone: +1 914 524 9200 • Fax: +1 914 333 2444

COR017/p2

SEND FOR A FREE SAMPLE COPY OF ...

TALANTA

The International Journal of Pure and Applied Analytical Chemistry

Editors: **J.M. Kauffmann**, *Université Libre de Bruxelles, Institut de Pharmacie, Campus Plaine - CP 205/6, Boulevard du Triomphe, B-1050 Bruxelles, Belgium* and **E.H. Hansen**, *Department of Chemistry, The Technical University of Denmark, DK-2800, Lyngby, Denmark*

Audience: Analytical Chemists.

AIMS AND SCOPE

Talanta published monthly, provides a forum for the publication of original research papers, preliminary communications, and reviews in all branches of pure and applied analytical chemistry. Other features are analytical data (stability constants, etc.), and letters to the editors. Papers on fundamental studies and novel instrumentation developments are especially encouraged. Novel applications in areas such as clinical chemistry, environmental analysis, geochemistry, materials science and engineering, pharmaceutical and drug analysis, etc. are welcome. Since spectrophotometric measurements and applications are well established, studies in these areas should demonstrate a unique and substantial advantage over presently known systems (with respect to reagents or a particular application). *Talanta: Chemical Sensors* presents significant experimental and theoretical research results relevant to chemical sensing. This section has been created in recognition of the growing need to perform chemical analysis in situ with sensing devices. Contributions will be expected to be of the high standard set and maintained by *Talanta* and to make a definite and useful contribution to analytical chemistry.

A Selection of Papers

J. WANG (USA), Selectivity coefficients for amperometric sensors.
T.M. PEKOL, N. POOPISUT, J.A COX (USA), Interaction with micelles as a driving force for uphill transport of organic cations across ion exchange membranes.
X.-C. LE, W.R. CULLEN, K.J. REIMER (Canada), Speciation of arsenic compounds by HPLC with hydride generation atomic absorption spectrometry and inductively coupled plasma mass spectrometry detection.
J.D. PETTY, D.A. PETTY, R.M. PEACHEY, T.K. SMITH, B.L. KRIEGER (Australia), High accuracy pre-formed gradient discontinuous flow titrimetry.
J. GOOSSENS, L. MOENS, R. DAMS (Belgium), A mathematical correction method for spectral interferences on selenium in inductively coupled plasma mass spectrometry.
F. BOSCH-REIG, J. VERDU-ANDRES, P. CAMPINS-FALCO, C. MOLINS-LEGUA (Spain), Study of the behaviour of the absorbent blanks in analytical procedures by using the H-point Standard Additions Method (HPSAM).
R.E. MALICK, J.G. DORSEY, T.L. CHESTER, D.P. INNIS (USA), Investigation of carbon dioxide modified supercritical and near supercritical carrier streams for flow injection systems.
L. LOCASCIO-BROWN, S.J. CHOQUETTE (USA), Measuring estrogens using flow injection immunoanalysis with liposome amplification.
R. JIMENEZ-PRIETO, A. VELASCO, M. SILVA, D. PEREZ-BENDITO (Spain), Kalman filtering of data from first- and second-order kinetics.
H.-H. ZENG, K.M. WANG, C.-L. LIU, R.-Q. YU (China), A reversible optode membrane for picric acid based on the fluorescence quenching of pyrene.

ABSTRACTED/INDEXED IN: *Analytical Abstracts, Aqualine Abstracts, BIOSIS Database, CAB International, Chemical Abstracts Service, Curr Cont ASCA/Phy Chem & Earth Sci, EIC Intel, Research Alert, SCISEARCH Database, Science Citation Index.*

1995: Volume 42 (12 issues)
Associated Personal price: **£107.00 (US$160.00)** Subscription price: **£745.00 (US$1111.00)**
ISSN 0039-9140 (00308)

Pergamon

Pergamon is an imprint of Elsevier Science.
If an Associated Personal Subscription rate is available full details accompany every sample copy requested. Sterling price quoted applies worldwide except in The Americas. US dollar price quoted applies in The Americas only.
Prices include postage and insurance. Customers resident in the EU will be charged VAT (or the equivalent) at their own country's rate, unless a VAT (or equivalent) registration number is supplied. Elsevier Science VAT registration number in the UK: GB 490 6384 25 000.

Please send me a **FREE SAMPLE COPY** of **TALANTA** (00308)

Name _____ Position _____

Organisation _____ Department _____

Address _____

_____ Post/Zip Code _____

Return to: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK
or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

IHA5

SEND FOR A FREE SAMPLE COPY OF ...

PROGRESS IN SURFACE SCIENCE

Editor: **Sydney G. Davison**, *Applied Mathematics Department, University of Waterloo, Ontario, Canada N2L 3G1*
Managing Editor: **Prudence G. Davison**, *Applied Mathematics Department, University of Waterloo, Ontario, Canada N2L 3G1*

Audience: Surface Scientists, Materials Scientists.

AIMS AND SCOPE
Progress in Surface Science publishes review articles from invited authors of international stature and, on occasion, special issues devoted to conference proceedings, selected works and dedicated volumes. Because of the transdisciplinary nature of surface science, topics are chosen for their timeliness from across the wide spectrum of scientific and engineering subjects. By adopting such an all-embracing policy, the journal strives to promote the exchange of ideas between surface scientists in the various areas. Authors are encouraged to write articles that are of relevance and interest to both established surface scientists and newcomers in the field.

A Selection of Papers
R.E. PALMER (UK), Electron-molecule dynamics at surfaces.
E. ILISCA (France), Ortho-para conversion of hydrogen molecules physisorbed on surfaces.
R. IMBIHL (Germany), Oscillatory reactions on single-crystal surfaces.
V.K. ADAMCHUK, V.V. AFANAS'EV (Russia), Internal photoemission spectroscopy of semiconductor-insulator interfaces.
A. OTTOVA-LEITMANNOVA, H.T. TIEN (USA), Bilayer lipid membranes: an experimental system for biomolecular electronic devices development.
H. KASI, A. OKIJI (Japan), Dynamics of vibrational excitation in molecule-surface interactions.
R.C. CAMMARATA (USA), Surface and interface stress effects in thin films.
F. BESENBACHER, J.K. NØRSKOV (Denmark), Oxygen chemisorption on metal surfaces: general trends for Cu, Ni and Ag.
E. HENDERSON (USA), Imaging of living cells by atomic force microscopy.
C. BUESS-HERMAN (Belgium), Self-assembled monolayers at electrode metal surfaces.

ABSTRACTED/INDEXED IN: *Chemical Abstracts, Current Contents/Phys, Chem & Earthsci, Engng Ind Monthly & Author Index, INSPEC, Index to Scientific Rev, Materials Science Citation Index, PASCAL/CNRS Database, Science Citation Index.*

1995: Volumes 48-50 (12 issues)
Subscription price: **£475.00 (US$708.00)**
ISSN 0079-6816 (00411)

Pergamon

Pergamon is an imprint of Elsevier Science.
If an Associated Personal Subscription rate is available full details accompany every sample copy requested. Sterling price quoted applies worldwide except in The Americas. US dollar price quoted applies in The Americas only.
Prices include postage and insurance. Customers resident in the EU will be charged VAT (or the equivalent) at their own country's rate, unless a VAT (or equivalent) registration number is supplied. Elsevier Science VAT registration number in the UK: GB 490 6384 25 000.

Please send me a **FREE SAMPLE COPY** of **PROGRESS IN SURFACE SCIENCE** (00411)

Name _____ Position _____

Organisation _____ Department _____

Address _____

_____ Post/Zip Code _____

Return to: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK
or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

IHA5

PRINTED IN GREAT BRITAIN BY BPC WHEATONS LTD, EXETER